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PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

**99 Bill Leathem Drive, 2 Leikin Drive, and 20 Leikin
Drive
Ottawa, Ontario**

Prepared for

Medusa LP

c/o Russell Beach

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1. EXECUTIVE SUMMARY

Geosyntec Consultants International, Inc. (Geosyntec) was retained by Medusa LP to prepare a Phase One Environmental Site Assessment (ESA) of the properties located at 99 Bill Leathem Drive, 2 Leikin Drive, and 20 Leikin Drive in Ottawa, Ontario (hereinafter referred to as the “Phase One Property” or the “Site”). Geosyntec’s assignment was conducted in accordance with the terms and conditions outlined in Geosyntec’s proposal to Medusa LP dated 19 April 2021.

The Phase One ESA was undertaken in accordance with the prescribed requirements of Ontario Regulation (O. Reg.) 153/04, as amended. It is Geosyntec’s understanding that this Phase One ESA is required by the City of Ottawa to support Site redevelopment and that a Record of Site Condition (RSC) is not required. The scope of work included a review of readily available relevant records, a Site reconnaissance, interviews, and a review of information and reporting, subject to the limitations outlined in Section 2.3 of this report. The Site reconnaissance included a visual inspection of exterior areas on-Site and on adjacent properties.

Zena-Kinder Holdings Limited is the owner of the Phase One Property, which is comprised of three separate land parcels (with three distinct addresses) located within the City of Ottawa. The Phase One Property is zoned IL9 (Light Industrial) under City of Ottawa By-Law No. 2008-250, which permits a wide range of low impact light industrial uses. A Site Location Map is presented on **Figure 1** of **Appendix A**.

The Phase One Property measures approximately 31.8 hectares (78.6 acres) in size. The Site comprises agricultural cropland and open field with no buildings present, with the farmed (north) portion of the Site currently utilized for soy and corn farming. The Site may be accessed from Longfields Drive to the west, Bill Leathem Drive and Paragon Avenue to the south, Leikin Drive to the southeast, and Merivale Road to the northeast. There are no on-Site surface water bodies; however, in the past there may have been a naturally occurring drainage ditch/swale on the southeast portion of the Site that is no longer evident. A Site Plan is presented on **Figure 2** of **Appendix A**.

The Phase One Property is located in an area that is developed with a mix of agricultural, industrial/commercial, and residential properties. The Site is bounded by agricultural properties and an industrial/commercial property to the north; Longfields Drive, Bill Leathem Drive, and an industrial/commercial property to the south; Paragon Avenue, Leikin Drive, and a mix of agricultural properties and open field to the east; and, Bill Leathem Drive and a mix of agricultural properties and open field to the west. The Phase One Study Area is presented on **Figure 3** of **Appendix A**.

According to historical records, the Phase One Property was developed prior to the mid-1930s for agricultural purposes, and most recently used for soy and corn farming. Presently, only the northern portion of the Site is farmed, with agricultural operations on the southern portion reportedly having ceased in approximately 2000.

Based on the results of the Phase One ESA, the following potentially contaminating activities (PCAs) were identified on-Site and/or on other properties located within the Phase One Study Area (additional details provided in Section 7.2), and are considered to represent areas of potential environmental concern (APECs) on the Phase One Property:

PCA Classification <i>(Table 2 of Schedule D, O. Reg. 153/04)</i>	Location of PCA
#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	<ul style="list-style-type: none"> • On-Site • Off-Site on lands adjoining to the north and west of the Site
#30 – Importation of Fill Material of Unknown Quality	<ul style="list-style-type: none"> • On-Site (southern portions of 99 Bill Leathem Drive and 20 Leikin Drive) • On-Site (northeast corner of 2 Leikin Drive) • On-Site (east-central portion of 2 Leikin Drive)

The above PCAs are considered to represent the following APECs on the Phase One Property (additional details provided in Section 7.3):

- **APEC #1** – Potential current and/or former use of pesticides across the entire Phase One Property;
- **APEC #2** – Potential presence of fill material of unknown quality across the southern portion of the Phase One Property;
- **APEC #3** – Potential presence of fill material of unknown quality on the northeastern corner of the Phase One Property;
- **APEC #4** – Potential presence of fill material of unknown quality on the east-central portion of the Phase One Property; and
- **APEC #5** – Potential current and/or former use of pesticides on the lands adjoining to the north, west, and east of the Phase One Property.

The PCAs and APECs are shown in **Appendix A**, on **Figure 4** and **Figure 5**, respectively. Based on the presence of APECs on the Phase One Property, a Phase Two ESA is required.

2. INTRODUCTION

2.1 Phase One Property Information

Geosyntec was retained by Medusa LP to conduct a Phase One ESA at 99 Bill Leathem Drive, 2 Leikin Drive and 20 Leikin Drive in Ottawa, Ontario (ON) (hereinafter referred to as the “Phase One Property” or the “Site”). A Site Location Map and Site Plan are provided in **Appendix A**, on **Figure 1** and **Figure 2**, respectively.

Phase One Property Information			
Phase One Property Addresses:	99 Bill Leathem Drive, Ottawa, ON K2C 3H1	2 Leikin Drive, Ottawa, ON K2C 3H1	20 Leikin Drive, Ottawa, ON K2C 3H1
Property Identification Number (PIN):	04733-6826	04733-6829	04733-0484
Legal Description:	PART OF LOTS 18 AND 19 CONCESSION 1, RF, NEPEAN	PART OF LOTS 18 AND 19 CONCESSION 1, RF, PART 5 PLAN 4R8388 AND PARTS 4, 5, AND 6 PLAN 4R8276, EXCEPT PART 4 PLAN 4R8388, AND EXCEPT PARTS 5, 6, AND 7 PLAN 4R233595, NEPEAN	PART OF LOTS 18 AND 19 CONCESSION 1, RF, PART 3 PLAN 4R8388 AND PARTS 7, 8, AND 9 PLAN 4R8276, S/T N311767, NEPEAN
Ownership:	Zena-Kinder Holdings Limited		
Site Contact Information:	Russell Beach, Senior Development Manager russell.beach@broccolini.com		

Zena-Kinder Holdings Limited is the owner of the Phase One Property, which is comprised of three separate land parcels (with three distinct addresses) located within the City of Ottawa. The Phase One Property is zoned IL9 (Light Industrial) under City of Ottawa By-Law No. 2008-250, which permits a wide range of low impact light industrial uses. A copy of a current plan of survey for the Phase One Property, signed and sealed by a surveyor, is provided in **Appendix B**.

The Phase One Property measures approximately 31.8 hectares (78.6 acres) in size. The Site comprises agricultural cropland and open field with no buildings present, with the farmed (north) portion of the Site currently utilized for soy and corn farming. The Site may be accessed from Longfields Drive to the west, Bill Leathem Drive and Paragon Avenue to the south, Leikin Drive to the southeast, and Merivale Road to the northeast. There are no on-Site surface water bodies however, in the past there may have been a naturally occurring drainage ditch/swale on the southeast portion of the Site that is no longer evident.

Geosyntec understands that Broccolini Construction Inc. (Broccolini), on behalf of Medusa LP, intends to develop the Phase One Property for commercial/industrial use. It is our understanding

that a Phase One ESA, prepared in accordance with O. Reg. 153/04, as amended, is required to be submitted to the City of Ottawa in support of the Site plan approval and that an RSC is not required.

2.2 Significant Assumptions

Geosyntec took no significant assumptions into account as part of this project, except as noted in the proposal.

2.3 Limitations, Deviations, and Exceptions

This Phase One ESA was conducted according to the agreed upon scope of work and includes the following essential components: a Site description and history; a review of database records; a summary of visual observations made during the Site reconnaissance; and a summary of information obtained during interviews of persons with knowledge of Site conditions. Geosyntec was not provided with and did not identify owner contact information prior to the current Site owner. However, since relevant historical documents were obtained, this limitation is not considered to be significant.

This Phase One ESA did not include sampling rock, soil, groundwater, surface water, soil vapor, air, or on-site substances or materials. Therefore, it is not possible to confirm the presence or absence of contaminants in the environments associated with the Phase One Property.

The findings and conclusions presented in this Phase One ESA are the result of professional interpretation of the information collected at the time of this study. Specified information contained in this report has been obtained from publicly available sources and other secondary sources of information. Although care has been taken in compiling this information, Geosyntec has not independently validated this information and provides no warranty as to its accuracy or completeness. The Phase One ESA does not necessarily include an exhaustive search of all available records nor does it include a detailed assessment of all Phase One ESA findings. Therefore, Geosyntec cannot “certify” or guarantee that any property is free of environmental impairment; no warranties regarding the environmental quality of the property are expressed or implied.

2.4 Special Terms and Conditions

No special contractual terms or conditions were taken into account as part of this project, except as noted in the proposal.

2.5 User Reliance

This Phase One ESA report has been prepared solely for the benefit of Medusa LP. Geosyntec has issued the Phase One ESA report to Medusa LP and grants Medusa LP the right to rely on the

report contents. Except as specifically set forth in Geosyntec’s proposal to Medusa LP to perform this work, no third party shall have the right to rely on Geosyntec opinions rendered in connection with the Services without Geosyntec’s written consent which may be conditioned on the third party’s agreement to be bound to acceptable conditions and limitations similar to those agreed to by Medusa LP. Please note that Geosyntec’s consent to provide a right-to-rely on the Phase One ESA report is subject to Medusa LP approval and to agreement to Geosyntec’s terms and conditions associated with Geosyntec’s performance of this specific Phase One ESA.

3. SCOPE OF INVESTIGATION

The Phase One ESA was prepared in accordance with the requirements of O. Reg. 153/04, as amended, and included the following tasks conducted by Geosyntec:

- A review of readily available records as listed in Part II of Schedule D of O. Reg. 153/04, as amended. The following types and sources of information were obtained and reviewed as part of the records review, where applicable, available, and as reasonably accessible:
 - General records (Section 4.1), including fire insurance plans (FIPs), property underwriter reports (PUPs), property underwriter plans (PURs), a chain of title search back to the first developed use of the Site, previous environmental site assessment reports, and city directory records;
 - Environmental source information (Section 4.2), including a review of an environmental database report prepared by Environmental Risk Information Service Ltd. (ERIS), which included a search of federal, provincial, and private databases records for the Phase One Property and properties within the Phase One Study Area;
 - Regulatory records (Section 4.3), including submission of requests to the Ontario Ministry of the Environment, Conservation and Parks (MECP) and the Technical Standards and Safety Authority (TSSA);
 - Physical setting sources (Section 4.4), including aerial photographs, topographic maps, physiographic maps, and geological maps, and well records; and
 - Site operating records (Section 4.5), including regulatory permits and records, material safety data sheets, underground utility drawings, inventories of chemical uses and chemical storage areas, and inventories of aboveground and underground storage tanks (ASTs/USTs).
- Completion of interviews with key personnel and designated Site Representative(s), including representatives of the current Phase One Property owner, as a resource for current and historical information pertaining to the Site (Section 5);
- Completion of a Site reconnaissance of the Phase One Property in order to identify any land use practices that may have impacted the environmental condition of the Site (Section 6);
- A review and evaluation of the information obtained from the above tasks to identify PCAs at the Site and within the Phase One Study Area, and to assess whether each PCA is considered to contribute to an APEC on the Phase One Property, where one or more contaminants of potential concern (COPCs) may be present (Section 7); and

- Preparation of this Phase One ESA report in accordance with the requirements described within Part VI of Schedule D of O. Reg. 153/04, Schedule D.

This Phase One ESA was conducted under the supervision of Paula Hutchison, P.Eng., the Qualified Person for Environmental Site Assessment (QP_{ESA}), in accordance with O. Reg. 153/04, as amended for this Phase One ESA report. Under her direction and oversight, the Site visit was conducted on 23 April 2021 by Berend Velderman of Geosyntec. The report was drafted by David Hogberg and Michelle Gluck and reviewed by Paula Hutchison of Geosyntec. The professional qualifications of the individuals above are presented in Section 8.2.

4. RECORDS REVIEW

4.1 General

4.1.1 Phase One Study Area Determination

The Phase One Property covers the properties located at 99 Bill Leathem Drive, 2 Leikin Drive, and 20 Leikin Drive. The Phase One Study Area includes those properties, wholly or partly located within 250 metres (m) of the boundary of the Phase One Property. The Qualified Person (QP_{ESA}), Ms. Paula Hutchison, confirms that the conventional distance of 250 m from the boundary of the Phase One Property was sufficient for defining the purpose of the Phase One Study Area for all records reviewed. This was based on the fact that the Phase One Property is located in a rural area. The Phase One Property and Phase One Study Area are shown on **Figure 3** of **Appendix A**.

4.1.2 First Developed Use Determination

Based on a review of a chain of title search and historical aerial photographs, the Phase One Property was purchased as Crown land in the mid-1830s and was developed prior to 1933 for agricultural purposes, most recently for soy and corn farming. Therefore, the first developed use of the Phase One Property is considered to be the use of the property for agricultural purposes beginning in the mid-1930s.

4.1.3 Fire Insurance Plans, Property Underwriter Reports, and Property Underwriter Plans

A request for FIPs, PURs, and PUPs covering the Phase One Study Area was submitted to OPTA Information Intelligence (OPTA) through ERIS. No PURs and PURs pertaining to the Site, and no FIPs pertaining to the Phase One Study Area, were identified by OPTA.

4.1.4 Chain of Title

Geosyntec retained ERIS to provide a chain of title report summarizing the historical ownership of the Phase One Property dating back to 1832. The results are of the search are as follows:

Date	Party From	Party To
17 January 1832 (Part Lot 18)	Crown	John Smith
20 October 1834 (Part Lot 19)	Crown	Maria Robertson
8 May 1832	John Smith	Asza Werdon
2 July 1837	Maria Robertson	Benjamin Holmes
10 April 1841	Asza Werdon	Sidney Helmer
26 April 1841	Sidney Helmer	James Burrows
28 February 1850	Benjamin Holmes	William Hopper
28 February 1850	William Hopper	George Hopper

Date	Party From	Party To
15 January 1851	George Hopper	John Stinson
9 February 1870 (Part Lot 18)	James Burrows	Henry Burrows
1 May 1872 (Part Lot 19)	John Stinson	James Falls
10 April 1875	Henry Burrows	William Fulford
3 November 1879	William Fulford	Jane Johnston
30 April 1887	James Falls	John Falls
6 February 1893	Jane Johnston	John Stinson
2 April 1918	John Falls	William J.R. Falls
5 July 1926	John Stinson	Frederick Stinson
19 May 1944 (Part Lot 18)	Frederick Stinson	Cecil Rivington
4 May 1946 (Part Lot 19)	William J.R. Falls	Cecil Rivington
31 December 1953	Cecil Rivington	Zena Leikin
9 July 1964 (Part Lot 19)	Zena Leikin	Zena Holding Limited
29 September 1964 (Part Lot 18)	Zena Leikin	Zena Holding Limited
31 October 1985 (Easement)	Zena Holdings Limited	The Corporation of The City of Nepean
5 January 1993	Zena-Kinder Holdings Limited (formerly Zena Holdings Limited)	The Corporation of The City of Nepean
29 January 1993	The Corporation of The City of Nepean	Zena-Kinder Holdings Limited

Based on a review of the ERIS chain of title report, the Phase One Property has been owned by various private individuals from 1832 through 1953. In 1953, the Phase One Property was acquired by the present-day property owner (Zena-Kinder Holdings Limited, formerly Zena Leikin).

A copy of the chain of title search and chain of title report for the Phase One Property is provided in **Appendix C**.

4.1.5 Environmental Reports

A copy of the following environmental investigation report was provided to Geosyntec by Broccolini, on behalf of the Site Owner:

- *‘Phase I – Environmental Site Assessment, Vacant Commercial Property, South Merivale Business Park, Nepean, Ontario’*, prepared by John D. Paterson and Associates Limited (JDPA), dated September 28, 1998 (the “1998 Phase I ESA”).

Our review of the above-noted report indicated that JDPA completed a Phase I ESA at a larger property comprising the Site and the lands to the east across Leikin Drive (the “Larger Property”) in September 1998. At that time, the Larger Property was vacant and consisted of a combination of farmed fields (inferred to produce corn, hay, and wheat) and grassed areas and was free of buildings. A sanitary sewer tunnel, oriented west to east, was located on the Larger Property and

was accessible via an entry shaft located to the east between Leikin Drive and Beckstead Road. JDPA reportedly did not identify any potential environmental concerns and concluded that no further work was required at the Larger Property.

4.1.6 City Directories

Geosyntec contacted ERIS to complete a search of city directory listings for the Phase One Property and for other properties located within the Phase One Study Area. Based on Geosyntec's review of the city directory listings provided by ERIS, the addresses comprising the Phase One Property were not listed in the city directories dated 1961 to 2011. The city directories identified listings for only one property located within the Phase One Study Area (73 Leikin Drive, located approximately 120 m to the south of the Site), which was utilized for retail commercial purposes in 2011. The listings for other surrounding properties located within the Phase One Study Area were either not listed or listed as inaccessible.

4.2 Environmental Source Information

Geosyntec contacted ERIS in April 2021 to complete a search of federal, provincial, and private source environmental databases (database publication dates included in parentheses) for records pertaining to the Phase One Property and for other properties located within the Phase One Study Area. The ERIS report was generated based on a search area of 300 m from the Phase One Property boundary. A copy of the ERIS database report is provided in **Appendix D**.

4.2.1 National Pollutant Release Inventory

A search of the '*National Pollutant Release Inventory*' (NPRI) (1998 – 2008) database, maintained by Environment Canada, did not identify any listings for the Phase One Property, or for other properties located within the Phase One Study Area.

4.2.2 PCB Information

A search of the '*National PCB Inventory*' (NPCB) (1988 – 2008) and '*Ontario Inventory of PCB Storage Sites*' (OPCB) (1987 – October 2004; 2012 – December 2013) databases, maintained by Environment Canada, did not identify any listings for the Phase One Property, or for other properties located within the Phase One Study Area.

4.2.3 Environmental Compliance Approvals, Certificates, and Permits

A search of the '*Certificates of Approval*' (CA) (1985 – October 30, 2011), '*Environmental Activity and Sector Registry*' (EASR) (October 2011 – January 31, 2021), '*Environmental Registry*' (EBR) (1994 – February 28, 2021), '*Environmental Compliance Approval*' (ECA) (October 2011 – January 31, 2021), '*Non-Compliance Reports*' (NCPL) (December 31, 2018),

'Pesticide Register' (PES) (October 2011 – January 31, 2021), and 'Permit to Take Water' (PTTW) (1994 – February 26, 2021) databases did not identify any listings for the Phase One Property; however, two EASR listings, two EBR listings, four ECA listings, and one CA listing were identified for other properties located within the Phase One Study Area:

- 61 Bill Leathem Drive (located adjacent to the southern boundary of the Site):
 - Two EASR listings for Lumentum Ottawa Inc. for a heating system (#R-003-6325612993) and a standby power system (#R-002-3388758525), dated 16 April 2013 and 21 November 2013, respectively;
 - Two EBR listings for JDS Uniphase Inc. at 15 Bill Leathem Drive (former address, inferred to be synonymous with 61 Bill Leathem Drive) for two approvals to discharge into the natural environment other than water (i.e., air), dated 13 November 2007 (#010-0780) and 23 December 2013 (#011-3348);
 - One ECA listing for JDS Uniphase Inc. pertaining to an ECA – Air (#8200-9DTU4Y), dated 13 December 2013;
 - Two ECA listings for JDS Uniphase Inc. pertaining to an ECA – Air (#2549-8FFSEY), dated 13 November 2007 and 26 April 2011, respectively; and
 - One ECA listing for JDS Uniphase Inc. for a revoked and/or replaced ECA – Air (#9682-78NHMB), dated 5 November 2007.
- One ECA listing for City of Ottawa at Part of Lots 18 and 19, Concession 1, Rideau Front (located approximately 140 m southwest of the Site) for an ECA – Municipal Drinking Water Systems (#6981-7SHQNB), dated 2 June 2009.

Due to the nature of the above listings (i.e., approvals for air emissions and water works), which do not appear to be indicative of chemical waste/storage activities and/or releases, the above listings are not considered to represent off-Site PCAs.

4.2.4 Coal Gasification Plants Inventory Information

A search of the 'Coal Gasification Plants and Coal Tar Sites' (COAL) (April 1987 and November 1988) database did not identify any listings for the Phase One Property or for other properties located within the Phase One Study Area.

4.2.5 Records of Environmental Incidents, Orders, Offences, Spills, Discharges, or Inspections

A search of the 'Compliance and Convictions' (CONV) (1989 – November 2020), 'Fuel Oil Spills and Leaks' (INC) (July 31, 2020), 'National Environmental Emergencies System (NEES)' (NEES)

(1973 – 2003), ‘Orders’ (ORD) (1994 – February 28, 2021), ‘TSSA Pipeline Incidents’ (PINC) (October 31, 2020), and the ‘Ontario Spills’ (SPL) (1988 – March 2020; July 2020 – August 2020) did not identify any listings for the Phase One Property; however, the following SPL listing was identified for another property located within the Phase One Area:

- 90 Bill Leathem Drive (located to the southwest of the Site across Bill Leathem Drive) is listed in the SPL database for a release of 20 litres (L) of hydraulic oil to land due to a hose leak/break on 6 March 2020. Potential for environmental impact was not provided in the listing.

The above listing is indicative of a release of hydraulic oil at a property located within the Phase One Study Area and is therefore considered to represent an off-Site PCA.

4.2.6 Waste Management Records

A search of the ‘Ontario Regulation 347 Waste Generators Summary’ (GEN) (1986 – January 31, 2021) and ‘Ontario Regulation 347 Waste Receivers Summary’ (REC) (1986 – 2016) databases did not identify any listings for the Phase One Property; however, 28 GEN listings were identified for other properties located within the Phase One Study Area:

- 61 Bill Leathem Drive (located adjacent to the southern boundary of the Site):
 - 12 GEN listings for JDS Uniphase Inc., followed by Lumentum Ottawa Inc., for registration as a generator (#ON4267608) of subject wastes including inorganic laboratory chemicals, organic laboratory chemicals, acid wastes – heavy metals, alkaline wastes – heavy metals, alkaline wastes – other metals, detergents/soaps, organic acids, amines, waste compressed gases, other specified organics, aliphatic solvents, and waste oils and lubricants, listed from 2007 and as of January 2021.
- 90 Bill Leathem Drive (located to the southwest of the Site across Bill Leathem Drive):
 - Two GEN listings for Consumers Gas Company Ltd. for registration as a generator (#ON0060850; now inactive) of subject wastes including oil skimmings and sludges and waste oils and lubricants, listed from 1996 to 2001;
 - One GEN listing for Enbridge Gas Services Inc. for registration as a generator (#ON2658900; now inactive) of subject wastes including waste oils and lubricants, listed in 2001;
 - 12 GEN listings for Enbridge Gas Distribution for registration as a generator (#ON6512754) of subject wastes including alkaline wastes, heavy metals, waste oils and lubricants, aliphatic solvents, organic laboratory chemicals, petroleum distillates, light fuels, oil skimmings and sludges, waste compressed gases, other

specified inorganics, paint/pigment/coating residues, and polychlorinated biphenyls (PCBs), listed from 2003 and as of July 2020; and

- One GEN listing for Direct Energy Inc. for registration as a generator (#ON7859537; now inactive) of subject wastes, listed in 2004. Registered waste classes were not provided in the listing.

The above listings indicate current and former waste generation activities at properties within the Phase One Study Area. These listings are considered to represent off-Site PCAs.

4.2.7 Records Submitted to the Ministry

A search of the ‘*Certificates of Property Use*’ (CPU) (1994 – February 28, 2021), ‘*Environmental Effects Monitoring*’ (EEM) (1992 – 2007), ‘*Environmental Issues Inventory System*’ (EIIS) (1992 – 2001), ‘*Contaminated Sites on Federal Land*’ (FCS) (June 2000 – January 2021), and ‘*Waste Water Discharger Registration Database*’ (SRDS) (1990 – December 31, 2017) databases did not identify any listings for the Phase One Property, or for other properties located within the Phase One Study Area.

4.2.8 Fuel Storage Tanks Information

A search of the ‘*Aboveground Storage Tanks*’ (AST) (May 31, 2014), ‘*Commercial Fuel Oil Tanks*’ (CFOT) (July 31, 2020), ‘*Delisted Fuel Tanks*’ (DTNK) (July 31, 2020), ‘*List of Expired Fuels Safety Facilities*’ (EXP) (July 31, 2020), ‘*Fuel Storage Tank*’ (FST) (July 31, 2020), ‘*Fuel Storage Tank – Historic*’ (FSTH) (Pre-January 2010), ‘*TSSA Historic Incidents*’ (HINC) (2006 – June 2009), ‘*Private and Retail Fuel Storage Tanks*’ (PRT) (1989 – 1996), ‘*Retail Fuel Storage Tanks*’ (RST) (1999 – December 31, 2020), ‘*Anderson’s Storage Tanks*’ (TANK) (1915 – 1953), and ‘*TSSA Variances for Abandonment of Underground Storage Tanks*’ (VAR) (July 31, 2020), databases did not identify any listings for the Phase One Property; however, one CFOT listing and four FST listings were identified for other properties located within the Phase One Study Area:

- 73 Leikin Drive (located approximately 120 m south of the Site):
 - One CFOT listing for Public Works Government Services Canada for a double wall, liquid fuel UST with a capacity of 5,000 litres (L). The install date of the tank is listed as 1 December 2016; and
 - One FST listing for Public Works Government Services Canada for a double wall, liquid fuel UST with a capacity of 5,000 L. The install date of the tank is listed as 1 December 2016.
- 2931 Highway 16 (now Merivale Road, located approximately 190 m east of the Site):

- Three FST listings for Mr. Gas Limited for three single wall, liquid fuel USTs with capacities of 15,000 L and 22,700 L. The install date of the tanks is listed at 10 February 1989.

The above listings indicate the current/former presence of fuel USTs at properties within the Phase One Study Area and are therefore considered to represent off-Site PCAs.

4.2.9 Notices and Instruments, including Records of Site Condition

A search of the ‘*Record of Site Condition*’ (RSC) (1997 – September 2021; October 2004 – January 2021) databases did not identify any listings for the Phase One Property, or for other properties located within the Phase One Study Area.

4.2.10 Landfill Information

A search of the ‘*Anderson’s Waste Disposal Sites*’ (ANDR) (1860s – Present), ‘*Landfill Inventory Management Ontario*’ (LIMO) (February 28, 2019), ‘*Waste Disposal Sites – MOE CA Inventory*’ (WDS) (October 2011 – January 31, 2021), and ‘*Waste Disposal Sites – MOE 1991 Historical Approval Inventory*’ (WSDH) (Up to October 1990) databases did not identify any listings for the Phase One Property or for other properties located within the Phase One Study Area.

4.2.11 Chemical Use Information

A search of the ‘*Dry Cleaning Facilities*’ (CDRY) (January 2004 – December 2018), ‘*Chemical Manufacturers and Distributors*’ (CHEM) (1999 – January 31, 2020), and ‘*Chemical Register*’ (CHM) (1999 – December 31, 2020) databases did not identify any listings for the Phase One Property, or for other properties located within the Phase One Study Area.

4.2.12 Aggregate and Mining Information

A search of the ‘*Abandoned Aggregate Inventory*’ (AAGR) (September 2002), ‘*Aggregate Inventory*’ (AGR) (Up to September 2020), ‘*Abandoned Mine Information System*’ (AMIS) (1800 – October 2018), ‘*Canadian Mine Locations*’ (MINE) (1998 – 2009), and the ‘*Mineral Occurrences*’ (MNR) (1846 – December 2020) databases did not identify any listings for the Phase One Property, or for other properties located within the Phase One Study Area.

4.2.13 Other Database Listings

A search of the ‘*Automobile Wrecking & Supplies*’ (AUWR) (1999 – December 31, 2020), ‘*ERIS Historical Searches*’ (EHS) (1999 – October 31, 2020), ‘*Canadian Pulp and Paper*’ (PAP) (1999, 2002, 2004, 2005, 2009 – 2014), and ‘*Scott’s Manufacturing Directory*’ (SCT) (1992 – March 2011) databases identified three EHS listings for the Phase One Property:

- The Phase One Property is listed for three previous ERIS reports completed in 2009 and 2021.

The above listings are not necessarily indicative of chemical/waste storage activities or releases but may be indicative of previous historical or environmental investigation efforts. Therefore, these listings are not considered to represent an on-Site PCA.

In addition, 8 EHS listings and two SCT listings were identified for other properties located within the Phase One Study Area:

- A total of eight EHS listings were identified for other properties located within the Phase One Study Area, which are potentially indicative of previous historical or environmental investigation efforts; and
- Two SCT listings for JDS Uniphase Inc. at 61 Bill Leathem Drive (located adjacent to the southern boundary of the Site), which uses the North American Industry Classification System (NAICS) codes of 334512 – *Measuring, Medical and Controlling Devices Manufacturing* and 333310 – *Commercial and Service Industry Machinery Manufacturing* to describe its operations. The facility is listed as established in 1981.

The above listings do not appear to be indicative of chemical/waste storage activities and/or releases, and therefore are not considered to represent off-Site PCAs.

4.3 Regulatory Records

4.3.1 Ontario Ministry of the Environment, Conservation and Parks (MECP)

Geosyntec submitted three requests to the MECP under the Freedom of Information and Protection of Privacy Act (FOI) for information pertaining to the Phase One Property addresses (99 Bill Leathem Drive, 2 Leikin Drive, and 20 Leikin Drive) on 14 April 2021. Responses from the MECP were outstanding at the time of writing of this report. Copies of the FOI requests are provided in **Appendix E**.

4.3.2 Technical Standards and Safety Authority (TSSA)

A request for records related to registered ASTs or USTs storing petroleum-related products, outstanding instructions, incident reports, fuel/oil spills, and/or contamination was submitted to the TSSA on 14 April 2021. A response from the TSSA was received on 15 April 2021, indicating that a search of their records did not produce any Fuels Safety documents pertaining to the Phase One Property. A copy of the TSSA correspondence is included in **Appendix E**.

4.4 Physical Setting Sources

4.4.1 Aerial Photographs

As part of this Phase One ESA, Geosyntec reviewed aerial photographs dated 1945 and 1958, which are available for review on the City of Ottawa Archives website. Geosyntec also reviewed satellite imagery dated 1976, 1991, 1999, 2007, and 2019, obtained from the geoOttawa interactive online mapping system. Geosyntec’s observations with respect to the Phase One Property are noted as follows:

Year of Aerial Photograph	Phase One Property
1945	The Phase One Property appears to have been cleared of vegetation and utilized for agricultural purposes (inferred cropland). There does not appear to be any buildings or structures present on the Phase One Property.
1958	An unpaved road (oriented west to east) appears to intersect the central portion of the Phase One Property.
1976	The Phase One Property appears to resemble the configuration shown in the 1958 aerial photograph, with no significant changes evident.
1991	The Phase One Property appears to resemble the configuration shown in the 1958 aerial photograph and 1976 satellite imagery, with no significant changes evident.
1999	Inferred fill mounds appear to be present on the southern and northeastern portions of the Phase One Property.
2007	Additional inferred fill mounds appear to be present on the southern portion of the Phase One Property.
2019	The northeastern portion of the Phase One Property appears to be utilized by the northeastern adjoining property (now 2852 Merivale Road) as a storage area. Stockpiles are observed on this portion of the Phase One Property, which are inferred to be associated with operations at 2852 Merivale Road.

The following table summarizes observations with respect to the surrounding properties located within the Phase One Study Area:

Year of Aerial Photograph	Phase One Study Area
1945	<p><u>North:</u> Inferred agricultural cropland and/or pastures.</p> <p><u>South:</u> Inferred agricultural cropland and/or pastures.</p> <p><u>West:</u> Inferred agricultural cropland and/or pastures, followed by a tributary of the Rideau River.</p> <p><u>East:</u> Inferred agricultural cropland and/or pastures followed by Merivale Road, with inferred residential buildings situated along Merivale Road. Prince of Wales Drive (Highway 73) is shown further east of the Phase One Property.</p>
1958	<p><u>North:</u> An inferred residential dwelling is shown on a property located to the northeast of the Phase One Property (now 2852 Merivale Road).</p> <p><u>South:</u> No significant changes are noted to the south of the Phase One Property.</p>

Year of Aerial Photograph	Phase One Study Area
1958	<p><u>West:</u> No significant changes are noted to the west of the Phase One Property.</p> <p><u>East:</u> Prince of Wales Drive (Highway 73) appears to have been expanded into a multilane highway.</p>
1976	<p><u>North:</u> No significant changes are noted to the north of the Phase One Property.</p> <p><u>South:</u> No significant changes are noted to the south of the Phase One Property.</p> <p><u>West:</u> No significant changes are noted to the west of the Phase One Property.</p> <p><u>East:</u> No significant changes are noted to the east of the Phase One Property.</p>
1991	<p><u>North:</u> No significant changes are noted to the north of the Phase One Property.</p> <p><u>South:</u> No significant changes are noted to the south of the Phase One Property.</p> <p><u>West:</u> No significant changes are noted to the west of the Phase One Property.</p> <p><u>East:</u> A small building and access road appear to be located along Merivale Road.</p>
1999	<p><u>North:</u> No significant changes are noted to the north of the Phase One Property.</p> <p><u>South:</u> Bill Leathem Drive and Leikin Drive appear to be under construction. Land disturbance is evident on the lands located to the south of the Phase One Property. An inferred commercial building is shown on the property located to the south of the Phase One Property across Bill Leathem Drive (now 90 Bill Leathem Drive), to the east of which is an inferred stormwater management pond. A large inferred commercial complex and parking area are shown on the property to the southeast of the Site (now 73 Leikin Drive).</p> <p><u>West:</u> No significant changes are noted to the west of the Phase One Property.</p> <p><u>East:</u> Leikin Drive appears to be under construction.</p>
2007	<p><u>North:</u> No significant changes are noted to the north of the Phase One Property.</p> <p><u>South:</u> An inferred multistory commercial building appears to be under construction on the property adjacent to the southeast of the Phase One Property (now 61 Bill Leathem Drive). Additional inferred soil stockpiles are shown on the lands located to the south of the Phase One Property.</p> <p><u>West:</u> No significant changes are noted to the west of the Phase One Property.</p> <p><u>East:</u> No significant changes are noted to the east of the Phase One Property.</p>
2019	<p><u>North:</u> No significant changes are noted to the north of the Phase One Property.</p> <p><u>South:</u> No significant changes are noted to the south of the Phase One Property.</p> <p><u>West:</u> No significant changes are noted to the west of the Phase One Property.</p> <p><u>East:</u> No significant changes are noted to the east of the Phase One Property.</p>

4.4.2 Topography, Hydrology, Geology

The Phase One Property is located in Universal Transverse Mercator (UTM) Zone 18, with approximate coordinates at the centre of the Site of Easting 444250 m and Northing 5016400 m. ERIS generated maps detailing the topography, physiography, and geology of the Phase One Study Area, with a search radius of 2,000 m from the Phase One Property boundary (provided in **Appendix F**). Details of these sources and the information provided therein are outlined in the table below.

Topic	Observations	Source
Topography	The Phase One Property is situated at an elevation of approximately 90 m above mean sea level (amsl). Regional topography slopes gently downward to the east towards the Rideau River, which flows in a northerly direction into the Ottawa River.	<ul style="list-style-type: none"> ERIS: '<i>Ontario Base Map (OBM)</i>', Ontario Ministry of Natural Resources, 2010. Google Earth™.
Physiography	The overburden characterizing the Phase One Study Area is derived from the Ottawa Valley clay plains.	<ul style="list-style-type: none"> ERIS: '<i>Physiography of Southern Ontario</i>', Chapman, L.J. and Putnam, D.F., 2007. The Physiography of Southern Ontario; OGS, Miscellaneous Release—Data 22.
Surficial Geology	The Phase One Study area is located in a region comprised of offshore marine deposits (clay, silty clay and silt, commonly calcareous and fossiliferous; locally overlain by thin sands).	<ul style="list-style-type: none"> ERIS: '<i>The Surficial Geology of Southern Ontario</i>', OGS, 2010. Surficial geology of southern Ontario, OGS, Miscellaneous Release—Data 128—Revised.
Bedrock Geology	Bedrock in the Phase One Study Area is comprised of dolostone and sandstone of the Beekmantown Group.	<ul style="list-style-type: none"> ERIS: '<i>Bedrock Geology of Ontario</i>', OGS, 2011. 1:250,000 scale bedrock geology of Ontario; OGS, Miscellaneous Release—Data 126—Revision 1.
Hydrology	Based on a review of information available in the well records from the ' <i>Water Well Information System</i> ' (WWIS) database, the depth to the upper groundwater surface at the Phase One Property is expected to be approximately 5.4 and 9.1 m below ground surface (bgs). Based on topographic gradient and the location of the Rideau River, the direction of groundwater flow on the Phase One Property is projected to be generally east. However, it is noted that a sewer easement from the City of Ottawa, which overlays the location of a municipal sewer line, intersects the central portion of the Site and thus may influence shallow groundwater flow on the Phase One Property.	<ul style="list-style-type: none"> ERIS: '<i>Water Well Information System</i>', dated April 30, 2020.

4.4.3 Fill Materials

According to information obtained from Geosyntec's interview (Section 5), a '*small soil stockpile*' was historically stored on the southern portion of the Site by the City of Ottawa during the construction of the nearby Royal Canadian Mounted Police facility at 73 Leikin Drive, located approximately 120 m to the south of the Site. The soil stockpile was reportedly removed from the Site following the cessation of construction activities. In addition, during the time of the Site reconnaissance, Geosyntec observed several stockpiles on the northeastern portion of the Site, which appeared to contain pieces of gravel, concrete and asphalt. These stockpiles are inferred to be related to operations on the northeastern adjoining property (2852 Merivale Road), which is

occupied by Canada Paving for the storage of heavy equipment (i.e., graders and backhoes) and numerous fill stockpiles associated with paving operations. Further, Geosyntec also observed a soil berm on 2 Leikin Drive, in the eastern-central portion of the Phase One ESA Property. Geosyntec also observed several small fill piles on the southern portion of the Phase One Property, at 99 Bill Leathem Drive, which appeared to contain soil material (Section 6).

The quality of fill material currently and formerly stored on-Site is unknown and is therefore considered to represent an on-Site PCA.

4.4.4 Water Bodies, Areas of Natural Significance, and Groundwater Information

The Phase One Study Area does not include a water body; however, in the past there may have been a naturally occurring drainage ditch/swale on the southeast portion of the Site that is no longer evident. It is noted that a stormwater management pond is located approximately 115 m to the south of the Phase One Property; however, as the pond was constructed for the purpose of controlling surface water drainage, it is not considered to meet the definition of a '*water body*' as per O. Reg. 153/04, as amended. The nearest water body is the Rideau River, located approximately 500 m to the east of the Phase One Property. The Rideau River flows in a northerly direction into the Ottawa River, located approximately 9.7 kilometres to the northwest of the Phase One Property.

The Phase One Property is not located within an area of natural and scientific interest (ANSI), nor does it include or is it adjacent to or is within 30 m of an ANSI, as defined in Section 41(1)(a) of O. Reg. 153/04, as amended. A map illustrating the lack of ANSI within the Phase One Study Area, nor within 2,000 m of the Phase One Property is included with the ERIS report in **Appendix F**.

The Phase One Property and Phase One Study Area have recently become serviced by the City of Ottawa municipal drinking water system, as part of the development of the Nepean Business Park. However, it is noted that there may still be water wells located within the Phase One study Area that are utilized for human consumption and/or agricultural usage. Further details are presented in Section 4.4.5.

4.4.5 Well Records

The '*Water Wells Information System*' (WWIS) database (April 30, 2020) is a provincial database that describes the locations and characteristics of water wells found within Ontario, in accordance with O. Reg. 903. Based on Geosyntec's review of the ERIS database report, no well records were identified in the WWIS database for the Phase One Property; however, a total of nine records were identified for other properties located within the Phase One Study Area. It should be noted that the well location markers presented in the ERIS report are based on coordinates of varying accuracy.

A summary of the information gleaned from the well records review is provided in the following table:

Well ID	Location	Primary Water Use	Final Well Status	Installation Year	Well Depth (m bgs)	Static Water Level (m bgs)
PHASE ONE STUDY AREA						
1534521	443781 E, 5016105 N	Livestock	Abandoned	2004	Not Provided	Not Provided
1504705	444651 E, 5016812 N	Domestic	Water Supply	1956	17.3	5.7
1510965	444731 E, 5016682 N	Domestic	Water Supply	1970	26.2	6.0
1504702	444271 E, 5016127 N	Livestock	Water Supply	1958	18.9	5.4
1504703	444776 E, 5016462 N	Domestic	Water Supply	1955	18.9	9.1
7181888	444802 E, 5016626 N	Monitoring and Test Hole	Test Hole	2012	2.1	Not Provided
1534771	444790 E, 5016519 N	Not Provided	Abandoned	2004	23.8	Not Provided
1513688	444796 E, 5016567 N	Livestock	Water Supply	1974	25	8.2
1515468	444830 E, 5016421 N	Domestic	Water Supply	1976	25.6	7.6

The well records indicate that the shallow groundwater surface within the Phase One Study Area is located at a depth of approximately 5.4 to 9.1 m bgs. Based on the above information, there appears to be six water supply wells located within the Phase One Study Area.

4.5 Site Operating Records

Site operating records must be reviewed where the Phase One Property is an ‘*enhanced investigation property*’, as defined under O. Reg. 153/04, Section 32.1 (1) and Schedule D, subsection 13 (3) if: (i) the property was used at any time, in whole or in part, for industrial use; or, (ii) the property was used at any time, in whole or in part, for any of the following commercial uses:

- a) As a garage;
- b) As a bulk liquid dispensing facility, including a gasoline outlet; and
- c) For the operation of dry-cleaning equipment.

Based on the information obtained from Geosyntec's records review, there do not appear to be historical records that indicate that the Phase One Property was used for any of the above purposes; as such, the Phase One Property is not considered to be an enhanced investigation property, as defined under O. Reg. 153/04, as amended. Therefore, no Site operating records were reviewed as part of this Phase One ESA.

5. INTERVIEWS

Mr. Dave Hogberg of Geosyntec conducted an interview with Russell Beach, Senior Development Manager of Broccolini. Russell Beach was identified as the person most knowledgeable with respect to the current and historic operations at the Phase One Property and was selected to be interviewed as part of this Phase One ESA. The interview was conducted on 28 April 2021.

Russell Beach indicated the following pertinent information with respect to the Phase One Property, beyond that which was already known through records review:

- The Site was purchased by Cecil Rivington in 1953;
- Portions of the Site have been utilized for agricultural purposes, specifically for soy and corn farming, since at least the mid-1930s. Presently, only the northern portion of the Site is farmed, with agricultural operations on the southern portion having ceased in approximately 2000;
- A ‘*small soil stockpile*’ was historically stored on the southern portion of the Site by the City of Ottawa during the construction of the nearby Royal Canadian Mounted Police facility at 73 Leikin Drive, located approximately 120 m to the south of the Site. The soil stockpile was reportedly removed from the Site following the cessation of construction activities;
- Agricultural drainage tiles are located across the farmed (north) portion of the Site, and a sewer easement from the City of Ottawa, which overlays the location of a municipal sewer line, intersects the central portion of the Site; and
- One former groundwater monitoring well, owned and maintained by the City of Ottawa, was formerly located on the Site and was decommissioned approximately 20 years ago.

No evidence of additional PCAs beyond those identified through records review was identified during the interview with Russell Beach. The information provided by Russell Beach was consistent with the records review conducted as part of this Phase One ESA and, as such, is considered reliable for the purposes of this assessment.

6. SITE RECONNAISSANCE

6.1 General Requirements

Mr. Berend Velderman of Geosyntec completed the reconnaissance of the Phase One Property on 23 April 2021. During the visit, the temperature was approximately 14°C and the weather conditions were sunny, and the ground surface was clear. The Site reconnaissance was conducted between approximately 2:00 and 4:00 pm. Mr. Velderman is a registered Professional Geoscientist (P. Geo.) with the Professional Geoscientists of Ontario and has over 25 years of experience in conducting Phase One ESAs for residential, commercial, and industrial properties.

As part of the Site reconnaissance, Geosyntec looked for evidence of the presence of hazardous substances used, stored, or discarded, and inspected the Phase One Property for areas of disturbed or discolored soil, suspect equipment and/or building materials which may contain hazardous substances, areas of distressed vegetation, wastewater discharge areas, storage tanks/septic systems, waste management/disposal areas, lagoons, pits, sumps, surface water management areas, and stained surfaces. In addition, a cursory review of surrounding properties within the Phase One Study Area was conducted from publicly accessible locations. Select photographs taken during the reconnaissance are included in **Appendix G**.

6.2 Specific Observations at the Phase One Property

6.2.1 Structures

At the time of the Site reconnaissance, the Phase One Property was comprised of agricultural cropland and open field with no buildings or structures present.

Below-Ground Structures

During the Site reconnaissance, Geosyntec did not observe any below ground structures on the Phase One Property, apart from manhole covers situated along the sewer easement from the City of Ottawa, which intersects the central portion of the Site. Though not observed during the Site reconnaissance, agricultural drainage tiles are reportedly located across the farmed (north) portion of the Site. No catch basins or other below ground structures are present on the Phase One Property based on the records review, interview, and observations made during the Site reconnaissance.

Details of Tanks

No evidence of current ASTs or USTs were identified at the Phase One Property during the Site reconnaissance.

Potable and Non-Potable Water Sources

The Phase One Property is reportedly not currently serviced by any potable or non-potable water sources. It is expected that the surrounding properties located within the Phase One Study Area are serviced by the City of Ottawa municipal water supply and sanitary and storm sewer systems.

6.2.2 Underground Utilities

At the time of the Site reconnaissance, the Phase One Property was comprised of agricultural cropland and open field and was not provided with utility service. No active buried underground utilities are expected to be located on the Phase One Property, and none were reported to be present during Geosyntec's interviewing effort. Reportedly, no utility plans are available for the Phase One Property.

6.2.3 Interior of Structures

Exit and Entry Points

Vehicle and pedestrian access to the Phase One Property is provided from Longfields Drive to the west, Bill Leathem Drive to the south, Leikin Drive to the southeast, and from Merivale Road to the northeast. There are presently no buildings or structures on the Phase One Property. Therefore, no interior exit and entry points were observed during the Site reconnaissance.

Existing and Former Heating Systems

The Phase One Property is not currently equipped with any heating systems. No details or evidence of former heating systems were observed at the Phase One Property during the Site reconnaissance.

Cooling Systems

The Phase One Property is not currently equipped with any cooling systems. No details or evidence of former cooling systems were observed at the Phase One Property during the Site reconnaissance.

Drains, Pits, and Sumps

No drains, pits or sumps were observed at the Phase One Property during the Site reconnaissance.

Unidentified Substances (Interior)

There are presently no buildings or structures located on the Phase One Property. Therefore, no interior observations were made during the Site reconnaissance.

Staining and Corrosion on Floor Surfaces

There are presently no buildings or structures located on the Phase One Property. Therefore, no interior observations were made during the Site reconnaissance.

6.2.4 Miscellaneous

Current and Former Wells

Based on a review of well records contained in the WWIS database (Section 4.4.5), no wells are located on the Phase One Property. Geosyntec did not identify any wells at the Phase One Property during the Site reconnaissance.

Based on information obtained during Geosyntec's interview (Section 5), one former groundwater monitoring well, owned and maintained by the City of Ottawa, was formerly located on Site, and was decommissioned approximately 20 years ago.

Sewage Works

No evidence of current or former sewage works was observed during the Site reconnaissance. Information pertaining to former sewage works on the Phase One Property was not available for Geosyntec's review.

Based on information obtained during Geosyntec's interview (Section 5), a sewer easement from the City of Ottawa, which overlays the location of a municipal sewer line, intersects the central portion of the Site.

Ground Surface Cover

The Phase One Property was observed to comprise agricultural cropland and open field at the time of the Site reconnaissance. Therefore, the ground surface at the Phase One Property was observed to consist of grass, shrubs, and other vegetation.

Current or Former Railway Lines

No evidence of current or former railway lines or spurs were observed during the Site reconnaissance.

6.2.5 Exterior Observations

Areas of Stained Soil, Vegetation or Pavement

No areas of stained soil, vegetation or pavement were observed during the Site reconnaissance.

Stressed Vegetation

No stressed vegetation was observed during the Site reconnaissance. It is noted that the Site reconnaissance was completed in late April when nearly all vegetation is in a state of dormancy from the winter months.

Fill and Debris

At the time of the Site reconnaissance, the Phase One Property was observed to comprise agricultural cropland and open field with no buildings or structures present. Geosyntec observed several stockpiles on the northeastern portion of the Site, which appeared to contain pieces of gravel, concrete and asphalt. These stockpiles are inferred to be related to operations on the northeastern adjoining property (2852 Merivale Road), which is occupied by Canada Paving for the storage of heavy equipment (i.e., graders and backhoes) and numerous fill stockpiles associated with paving operations. Further, Geosyntec also observed a soil berm on 2 Leikin Drive, in the eastern-central portion of the Phase One ESA Property. Geosyntec also observed several small fill piles on the southern portion of the Phase One Property, at 99 Bill Leathem Drive, which appeared to contain soil material (Section 6). In addition, according to information obtained from Geosyntec's interview (Section 5), a '*small soil stockpile*' was historically stored on the southern portion of the Site by the City of Ottawa during the construction of the nearby Royal Canadian Mounted Police facility at 73 Leikin Drive, located approximately 120 m to the south of the Site. The soil stockpile was reportedly removed from the Site following the cessation of construction activities.

Potentially Contaminating Activities

The following PCAs were observed during the Site reconnaissance:

- At the time of the Site reconnaissance, the farmed (north) portion of the Site was utilized for agricultural purposes, specifically for soy and corn farming. Agricultural operations on the Phase One Property may include the current or former application of pesticides; and
- At the time of the Site reconnaissance, numerous stockpiles were observed on the northeastern adjoining property at 2852 Merivale Road, some of which appeared to be stored on the northeastern portion of the Site. A soil berm was observed on the eastern-central portion of the Phase One ESA Property and several small fill piles were also observed on the southern portion of the Phase One Property.

Water Bodies

No on-Site water bodies were observed at the time of the Site reconnaissance.

Areas of Natural Significance

As discussed in Section 4.4.4, a review of an ANSI map prepared by ERIS for the area within 2,000 m of the Phase One Property did not identify any ANSI within the Phase One Study Area. Furthermore, no land that would be considered as an ANSI was observed on the Phase One Property or within the Phase One Study Area during the Site reconnaissance. The ANSI map is included in **Appendix F**.

Unidentified Substances (Exterior)

No unidentified substances were observed on the exterior of the Phase One Property during the Site reconnaissance.

6.2.6 Enhanced Investigation Property

A property is considered an ‘*enhanced investigation property*’ as defined under O. Reg. 153/04, Section 32.1 (1) and Schedule D, subsection 13 (3) if: (i) the property was used at any time, in whole or in part, for industrial use; or, (ii) the property was used at any time, in whole or in part, for any of the following commercial uses:

- a) As a garage;
- b) As a bulk liquid dispensing facility, including a gasoline outlet; and
- c) For the operation of dry-cleaning equipment.

Based on the information obtained from Geosyntec’s records review, there do not appear to be historical records that indicate that the Phase One Property was used for any of the above purposes; as such, the Phase One Property is not considered to be an enhanced investigation property, as defined under O. Reg. 153/04, as amended.

6.3 Phase One Study Area Observations

The Phase One Property is located in an area that is developed with a mix of agricultural, commercial, industrial, and residential properties. Based on Geosyntec’s visual observations from publicly accessible areas, a general assessment of the current uses of the adjacent properties and notable land uses within the Phase One Study Area is summarized in the table below.

Direction	Geosyntec's Observations	Comments
North	The Site is bounded to the north by agricultural properties, as well as a small lot to the northeast, which appears to be currently utilized by Canada Paving as a storage yard (2852 Merivale Road).	At the time of the Site reconnaissance, Geosyntec observed numerous stockpiles on the northeastern adjoining property, some of which appeared to be stored on the northeastern portion of the Site. In addition, though not observed during the Site reconnaissance, current agricultural operations may include the application of pesticides.
East	The Phase One Property is bounded to the east by Paragon Avenue, Leikin Drive, and Merivale Drive, as well as a mix of agricultural properties and open field.	Though not observed during the Site reconnaissance, current agricultural operations may include the application of pesticides.
South	The Phase One Property is bounded to the south by Longfields Drive and Bill Leathem Drive, Lumentum (61 Bill Leathem Drive), and open field. Canada Post (90 Bill Leathem Drive) is present further south beyond Bill Leathem Drive.	Though not observed during the Site reconnaissance, 61 Bill Leathem Drive and 90 Bill Leathem Drive are both listed in the ERIS report for waste generation activities.
West	The Phase One Property is bounded to the west by Bill Leathem Drive and a mix of agricultural properties and open field.	Though not observed during the Site reconnaissance, current agricultural operations may include the application of pesticides.

6.4 Written Description of Investigation

A Site reconnaissance was conducted by Mr. Berend Velderman of Geosyntec on 22 April 2021, which included the following:

- A walk-through of all portions of the Phase One Property. During the walk-through, an investigation was conducted to obtain and document information pursuant to all items presented in Schedule D, subsection 13 of O. Reg. 153/04. The results of the Site investigation are presented in Section 6.2 of this report;
- A review of surrounding properties located within the Phase One Study Area from publicly accessible areas to locate and document off-Site PCAs, water bodies, and areas of natural significance;
- The Site reconnaissance was documented with a questionnaire and photographs. The following on-Site PCAs were observed during the Site reconnaissance, and are considered to result in APECs on the Phase One Property:
 - At the time of the Site reconnaissance, the farmed (north) portion of the Site was utilized for agricultural purposes, specifically for soy and corn farming.

Agricultural operations on the northern portion of the Phase One Property may include the current or former application of pesticides; and

- At the time of the Site reconnaissance, a soil berm was observed on the eastern-central portion of the Phase One ESA Property and several small fill piles were observed on the southern portion of the Phase One Property. Numerous stockpiles were also observed on the northeastern adjoining property at 2852 Merivale Road, some of which appeared to be stored on the northeastern portion of the Phase One Property.
- No on-Site water bodies were identified during the Site reconnaissance. No ANSIs were observed within the Phase One Study Area during the Site reconnaissance; and
- The following off-Site PCAs were noted with respect to the surrounding properties observed within the Phase One Study Area during the Site reconnaissance, as described above in Section 6.3:
 - The lands adjoining to the north, east, and west of the Phase One Property are currently utilized for agricultural purposes. Though not observed during the Site reconnaissance, current agricultural operations may include the application of pesticides.

7. REVIEW AND EVALUATION OF INFORMATION

7.1 Current and Past Uses

The past property uses were determined for the Phase One Property from a chain of title (Section 4.1.4), city directories (Section 4.1.6), aerial photographs (Section 4.4.1), and other historical sources. A summary of current and past uses at the Phase One Property is presented in the following table:

Year	Name of Owner(s)	Description of Property Use	Property Use	Other Observations from Chain of Title, Aerial Photographs, Fire Insurance Plans, etc.
Prior to 1944	Various private individuals	Inferred to be utilized for agricultural or other purposes; however, this cannot be confirmed.	Agricultural or other use	The chain of title indicates that the Phase One Property was occupied by various private individuals prior to 1944.
1944 to 1953	Cecil Rivington	The Phase One Property was utilized for agricultural purposes.		The chain of title indicates that the Phase One Property was purchased by Cecil Rivington in 1944. The 1945 aerial photograph indicates that the Phase One Property was utilized for agricultural purposes (inferred cropland).
1953 to Present	Zena Leikin, Zena Holdings Limited, Zena-Kinder Holdings Limited, and The Corporation of The City of Nepean	The Phase One Property was utilized for agricultural purposes until approximately 2000. Presently, only the northern portion of the Phase One Property is farmed, and the southern portion of the Phase One Property is open field.		The chain of title indicates that the Phase One Property was acquired by the present-day Site owner (Zena-Kinder Holdings Limited, formerly Zena Leikin) in 1953. Based on information obtained from the interview, portions of the Phase One Property were utilized for agricultural purposes since at least the mid-1940s. Presently, only the northern portion of the Phase One Property is farmed, with agricultural operations on the southern portion having ceased in approximately 2000.

7.2 Potentially Contaminating Activity

Based on the results of this Phase One ESA, the following PCAs were identified on the Phase One Property, all of which are considered to represent APECs on the Phase One Property:

PHASE ONE PROPERTY		
PCA Classification <i>(Table 2 of Schedule D, O. Reg. 153/04)</i>	PCA Description	Location of PCA
#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications.	Based on information obtained from the records review, the Phase One Property was developed prior to the mid-1930s for agricultural purposes, specifically for soy and corn farming. Presently, only the northern portion of the Site is farmed, with agricultural operations on the southern portion reportedly having ceased in approximately 2000. Current and former agricultural operations on the Phase One Property may include, or have included, the application of pesticides.	Entire Site
#30 – Importation of Fill Material of Unknown Quality	At the time of the Site reconnaissance, Geosyntec observed numerous stockpiles on the northeastern adjoining property at 2852 Merivale Road, some of which appeared to be stored on the northeastern portion of the Phase One Property. Further, based on the information obtained during Geosyntec's interview, a 'small soil stockpile' was historically stored on the southern portion of the Site by the City of Ottawa during the construction of the nearby Royal Canadian Mounted Police facility at 73 Leikin Drive, located approximately 120 m to the south of the Phase One Property. The soil stockpile was reportedly removed from the Phase One Property following the cessation of construction activities. According to historical satellite imagery dated 1999 and 2007, inferred fill mounds appear to be present on the southern portion of the Phase One Property (i.e., 99 Bill Leatham Drive). In addition, a soil berm was observed on the eastern-central portion of the Phase One ESA Property and several small fill piles were observed on the southern portion of the Phase One Property during the Site reconnaissance.	Northeastern, east-central, and southern portions of Site

The following off-Site PCAs were identified within the Phase One Study Area:

PHASE ONE STUDY AREA			
PCA Classification <i>(Table 2 of Schedule D, O. Reg. 153/04)</i>	PCA Description	Location of PCA	Considered to Result in an APEC
#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	The lands to the north, east, and west of the Phase One Property are currently utilized for agricultural purposes. Current agricultural operations may include the application of pesticides.	Lands to the immediate north, west, and east of the Site	Yes, the PCAs to the west and north resulted in an APEC due to inferred hydraulic upgradient/cross-gradient location relative to the Site. Due to the inferred hydraulic gradient, the PCA on lands to the east of the Site were considered to be downgradient and did not result in an APEC.
Non-Defined PCA – Waste Generation	The property is listed in the GEN database as a generator of subject wastes including inorganic laboratory chemicals, organic laboratory chemicals, acid wastes, heavy metals, alkaline wastes, other metals, detergents/soaps, organic acids, amines, waste compressed gases, other specified organics, aliphatic solvents, and waste oils and lubricants from 2007 and as of January 2021.	61 Bill Leathem Drive (adjoining to the east of the Site)	No, due to inferred hydraulic transgradient location relative to the Site. In addition, registration as a generator of subject waste is a regulatory requirement pursuant to O. Reg. 347 and is not necessarily indicative of a release to soil or groundwater. Therefore, the QP is of the opinion that this PCA is not considered to result in an APEC.
Non-Defined PCA – Waste Generation	The property is listed in the GEN database as a generator of subject wastes including generation of alkaline wastes, heavy metals, waste oils and lubricants, aliphatic solvents, organic laboratory chemicals, petroleum distillates, light fuels, oil skimmings and sludges, waste compressed gases, other specified inorganics, paint/pigment/coating residues, and PCBs from 1996 to 2020.	90 Bill Leathem Drive (adjoining to the south of the Site)	No, due to inferred hydraulic transgradient location relative to the Site. In addition, registration as a generator of subject waste is a regulatory requirement pursuant to O. Reg. 347 and is not necessarily indicative of a release to soil or groundwater. Therefore, the QP is of the opinion that this PCA is not considered to result in an APEC.
Non-Defined PCA – Spills	The property is listed in the SPL database for a release of 20 L of hydraulic oil to land from a blown hose on 6 March 2020.		

PHASE ONE STUDY AREA			
PCA Classification (Table 2 of Schedule D, O. Reg. 153/04)	PCA Description	Location of PCA	Considered to Result in an APEC
#28 – Gasoline and Associated Products Storage in Fixed Tanks	The property is listed in the CFOT and FST databases for a double wall, liquid fuel UST with a capacity of 5,000 L.	73 Leikin Drive (located approximately 120 m south of the Site)	No, due to inferred hydraulic transgradient location relative to the Site.
#28 – Gasoline and Associated Products Storage in Fixed Tanks	The property is listed in the FST database for three single wall, liquid fuel USTs with capacities of 15,000 L and 22,700 L.	2931 Highway 16 (located approximately 190 m east of the Site)	No, due to inferred hydraulic transgradient location relative to the Site.

The locations of the PCAs identified in the Phase One Study Area are shown on **Figure 4**.

The following PCAs from the above tables are considered to represent APECs on the Phase One Property:

PCA Classification (Table 2 of Schedule D, O. Reg. 153/04)	Location of PCA
#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	<ul style="list-style-type: none"> • On-Site • Off-Site on lands adjoining to the north and west of the Site
#30 – Importation of Fill Material of Unknown Quality	<ul style="list-style-type: none"> • On-Site (southern portions of 99 Bill Leathem Drive and 20 Leikin Drive) • On-Site (northeast corner of 2 Leikin Drive) • On-Site (east-central portion of 2 Leikin Drive)

7.3 Areas of Potential Environmental Concern

A summary of APECs identified at the Phase One Property is presented in the following table:

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC #1 – Potential current and/or former pesticide application across the entire Phase One Property.	Entire Phase One Property	#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-Site	OCPs	Soil and Groundwater
APEC #2 – Potential presence of fill material of unknown quality on the southern portion of the Phase One Property.	Southern Portion of the Phase One Property	#30 – Importation of Fill Material of Unknown Quality	On-Site	PHCs, PAHs, VOCs, Metals (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl-, CN-, low or high pH, EC, and SAR	Soil
APEC #3– Potential presence of fill material of unknown quality on the northeastern corner of the Phase One Property.	Northeastern Portion of the Phase One Property	#30 – Importation of Fill Material of Unknown Quality	On-Site	PHCs, PAHs, VOCs, Metals (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl-, CN-, low or high pH, EC, and SAR	Soil
APEC #4 – Potential presence of fill material of unknown quality on the east-central portion of the Phase One Property.	East-Central Portion of the Phase One Property	#30 – Importation of Fill Material of Unknown Quality	On-Site	PHCs, PAHs, VOCs, Metals (including As, Sb, Se, Cr [VI], Hg, methyl mercury), Na, B-HWS, Cl-, CN-, low or high pH, EC, and SAR	Soil

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC #5 – Potential current and/or former pesticide application on the lands adjoining to the north and west of the Phase One Property.	Northern Portion of the Phase One Property	#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Off-Site	OCPs	Soil and Groundwater

Notes:

OCPs – Organochlorinated Pesticides

VOCs – Volatile Organic Compounds

PHCs F1-F4 – Petroleum Hydrocarbons Fractions F1 to F4

PAHs – Polycyclic Aromatic Hydrocarbons

As, Sb, Se – Arsenic, Antimony, and Selenium

CN- - Cyanide

Cr (VI) – Hexavalent Chromium

B-HWS – Boron (Hot Water Soluble)

Hg – Mercury

Na – Sodium

Cl- – Chloride

EC – Electrical Conductivity

SAR – Sodium Adsorption Ratio

7.4 Phase One Conceptual Site Model

The Phase One CSM is depicted in **Figures 1** through **5** of **Appendix A**, which illustrate the following, where applicable:

- Existing buildings and structures;
- Water bodies located in whole or in part within the Phase One Study Area;
- Areas of natural significance located in whole or in part on the Phase One Study Area;
- Roads (including names) within the Phase One Study Area;
- Areas where any PCA has occurred, and locations of tanks in the Phase One Study Area;
- APECs;
- Drinking water wells at the Phase One Property; and
- Uses of properties adjacent to the Phase One Property.

7.4.1 Potentially Contaminating Activities

Two on-Site PCAs were identified during the Phase One ESA, which led to four APECs on the Phase One Property:

- **#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications:** Based on information obtained from the records review, the Phase One Property was developed prior to the mid-1930s for agricultural purposes, most recently for soy and corn farming. Presently, only the northern portion of the Site is farmed, with agricultural operations on the southern portion reportedly having ceased in approximately 2000. Current and former agricultural operations on the Phase One Property may include, or have included, the application of pesticides.
- **#30 – Importation of Fill Material of Unknown Quality:** At the time of the Site reconnaissance, Geosyntec observed numerous stockpiles on the northeastern adjoining property at 2852 Merivale Road, some of which appeared to be stored on the northeastern portion of the Phase One Property. In addition, a soil berm was observed on the east-central portion of the Phase One Property as well as several small fill piles were observed on the southern portion of the Phase One Property during the Site reconnaissance. Further, based on the information obtained during Geosyntec’s interview, a ‘*small soil stockpile*’ was historically stored on the southern portion of the Site by the City of Ottawa during the construction of the nearby Royal Canadian Mounted Police facility at 73 Leikin Drive, located approximately 120 m to the south of the Site. The soil stockpile was reportedly removed from the Site following the cessation of construction activities. According to historical satellite imagery dated 1999 and 2007, inferred fill mounds appear to be present on the southern portion of the Phase One Property (i.e., 99 Bill Leathem Drive).

The following off-Site PCAs was identified during the Phase One ESA and is considered to represent an APEC on the Phase One Property:

- **#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications:** The lands to the north and west of the Phase One Property are currently utilized for agricultural purposes. Current agricultural operations may include the application of pesticides.

The PCAs and APECs are shown on **Figure 4** and **Figure 5** of **Appendix A**, respectively.

7.4.2 Underground Utilities

At the time of the Site reconnaissance, the Phase One Property was comprised of agricultural cropland and open field and was not provided with utility service. No active buried underground

utilities are expected to be located on the Phase One Property, and none were reported to be present during Geosyntec’s interviewing effort. Reportedly, no utility plans are available for the Phase One Property.

7.4.3 Geological and Hydrogeological Information

A review of the ERIS ‘*Ontario Base Map (OBM)*’ map, as well as satellite imagery available for viewing on Google Earth™, indicates that the Phase One Property is situated at an elevation of approximately 90 m amsl. Regional topography slopes gently downward to the east towards the Rideau River.

According to the ERIS ‘*Physiography of Southern Ontario*’ map, the physiography of the Phase One Study Area is derived from the Ottawa Valley clay plains. The ERIS ‘*Surficial Geology of Southern Ontario*’ map indicates that the Phase One Study area is located in a region comprised of offshore marine deposits (clay, silty clay and silt, commonly calcareous and fossiliferous; locally overlain by thin sands). According to the ERIS ‘*Bedrock Geology of Ontario*’ map, the bedrock at the Phase One Property is comprised of dolostone and sandstone of the Beekmantown Group.

Based on a review of information available in the well records from the WWIS database, the depth to the upper groundwater surface at the Phase One Property is expected to be approximately 5.4 m bgs. Based on topographic gradient and the location of the Rideau River, the direction of groundwater flow on the Phase One Property is projected to be generally east. However, it is noted that a sewer easement from the City of Ottawa, which overlays the location of a municipal sewer line, intersects the central portion of the Site and thus may influence shallow groundwater flow on the Phase One Property.

Copies of the ERIS maps described above are provided in **Appendix F**.

7.4.4 Data Gaps and Uncertainty

The following data gaps are identified:

- Only listings for a surrounding property located at 73 Leikin Drive, approximately 120 m to the south of the Phase One Property, could be obtained for review. The listings for the Phase One Property and for other surrounding properties within the Phase One Study Area were either not listed or were inaccessible; and
- The ERIS report indicates that poor or inadequate address information was available for a total of 82 ‘*unplottable sites*’ located in the vicinity of the Phase One Property; therefore, these properties could not be readily mapped by ERIS. Because the location of these records with respect to the Phase One Property could not be discerned, Geosyntec is limited

in its ability to express an opinion regarding the potential for environmental impact to the Phase One Property from these properties.

8. CONCLUSIONS

8.1 Requirement for a Phase Two Environmental Site Assessment

As discussed in Section 7.3, the Phase One ESA identified five APECs for the Phase One Property. Therefore, a Phase Two ESA is required to be completed in accordance with O. Reg. 153/04.

8.2 Qualifications of the Assessors

Dave Hogberg, P. Geo.

Mr. Hogberg is a licensed Professional Geoscientist (P. Geo.) in the Province of Ontario. Mr. Hogberg is a hydrogeologist in the remediation group of Geosyntec's Canadian Operations, in Guelph, Ontario. Mr. Hogberg has over 16 years of experience managing projects including 10 years specializing in environmental investigation and remedial projects in Canada, Australia, USA, and Denmark. Mr. Hogberg has completed hundreds of Phase I and II ESAs for transactional due diligence purposes in Canada and Australia. He holds a Bachelor of Science in Environmental Science and Energy Studies from Murdoch University, Australia and a Master of Science in Hydrogeology from the University of Waterloo.

Michelle Gluck, P. Geo.

Ms. Gluck is a licensed Professional Geoscientist (P. Geo.) in the Province of Ontario. Ms. Gluck is a Geoscientist in the remediation group of Geosyntec's Canadian Operations, in Toronto, Ontario. Ms. Gluck has over 5 years of experience in environmental consulting and has completed hundreds of Phase I and II ESAs for transactional due diligence purposes across Canada. She has also supported dozens of brownfields redevelopments in accordance with the requirements stipulated in O. Reg. 153/04, as amended. She holds a Post-Graduate Certificate in Environmental Management and Assessment from Niagara College and an Honours Bachelor of Science, Environmental Science, Environmental Management, and Earth Science from the University of Toronto.

Paula Hutchison, P. Eng., QP_{ESA}

Ms. Hutchison is a licensed Professional Engineer (P. Eng.) in the Province of Ontario, and for this Phase One ESA Report is the Qualified Person, Environmental Site Assessment (QP_{ESA}), as defined by O. Reg. 153/04, as amended. Ms. Hutchison is a Principal Engineer in the remediation group of Geosyntec's Canadian Operations, in Waterloo, Ontario. With more than 15 years of environmental consulting experience, Ms. Hutchison has capabilities in many areas of environmental engineering with special emphasis on environmental investigations, site characterization, site remediation, risk assessment and due diligence in property transactions.

Paula has conducted and managed a range of projects for private and public sector clients in Canada and the United States.

Berend Velderman, P. Geo.

Mr. Velderman is a licensed Professional Geoscientist (P. Geo.) in the Province of Ontario. Mr. Velderman is a Senior Hydrogeologist in the remediation group of Geosyntec's Canadian Operations, in Ottawa, Ontario. With more than 25 years of environmental consulting experience, Mr. Velderman is a subject matter expert in environmental health and safety compliance, due diligence, geochemistry, hydrogeology, water supply, sediment management, and site remediation. He has led numerous site assessment and remedial implementation projects for clients in Canada, including developers, landowners, financial institutions, manufacturers, municipalities, the Canadian Federal Government, and First Nations. He holds a Master of Science, Earth Sciences, Hydrogeology and Geochemistry from the University of Ottawa and a Bachelor of Science (Honours), Geology from Queen's University.

8.3 Signatures

Geosyntec prepared this Phase One Environmental Site Assessment for the property located at 99 Bill Leathem Drive, 2 Leikin Drive and 20 Leikin Drive, Ottawa, Ontario in accordance with the requirements stipulated in O. Reg. 153/04, as amended.

The conclusion of this Phase One ESA is based on the best judgement of the QP_{ESA} and the results of the records review of the title search, city directory search, ERIS report, aerial photographs, interviews with personnel familiar with the Phase One Property, and completion of the Phase One Property Site reconnaissance.

This Phase One ESA was prepared and written by Dave Hogberg, P. Geo., Michelle Gluck, P. Geo., and Berend Velderman, P. Geo., and reviewed by Paula Hutchison, P. Eng., and QP_{ESA} for this Phase One ESA.

Respectfully Submitted,



Paula Hutchison, P. Eng., QP_{ESA}
Principal Engineer

9. REFERENCES

ERIS Database Report, 99 Bill Leathem Drive and 2 and 20 Leikin Drive, Nepean, Ontario K2J 0P8. Order No. 21041400366. April 20, 2021.

geoOttawa. Accessed April 2021. <https://maps.ottawa.ca/geottawa/>

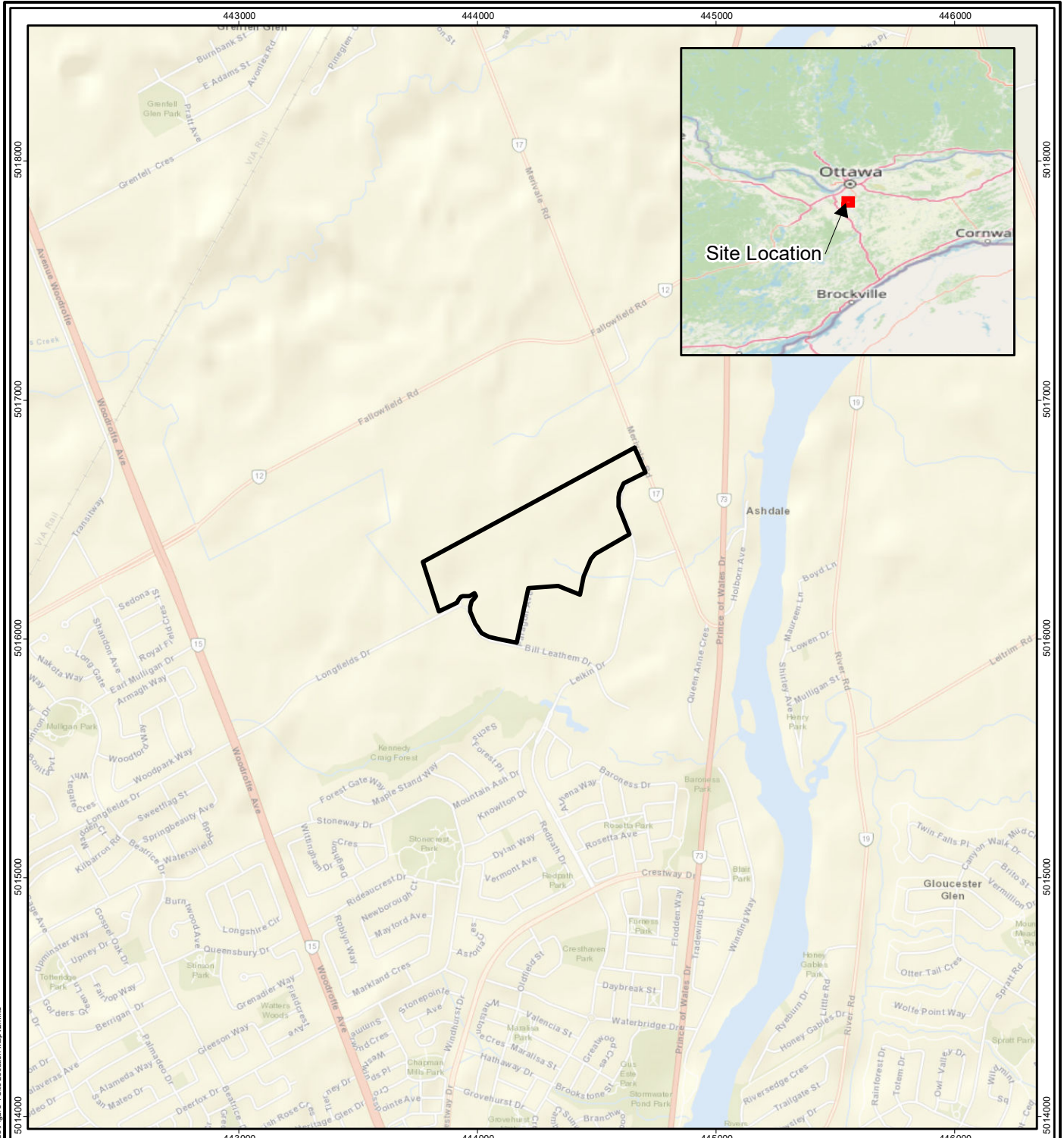
John D. Paterson and Associates Limited. Phase I Environmental Site Assessment Vacant Commercial Property South Merivale Business Park, Nepean, Ontario. September 28, 1998.

Province of Ontario. Ontario Regulation 153/04, Records of Site Condition – Part XV.1 of the Act.

Province of Ontario. Well Records mapping tool. Accessed April 2021.

<https://www.ontario.ca/environment-and-energy/map-well-records>

APPENDIX A
FIGURES




Legend:
 Phase One Property Location

FIGURE 1

SITE LOCATION MAP

99 BILL LEATHAM DRIVE AND 2 AND 20 LEIKIN DRIVE,
 OTTAWA, ONTARIO

Notes:
 1) Map Projection: NAD 1983 UTM
 Zone 18N
 2) Data Source Credits

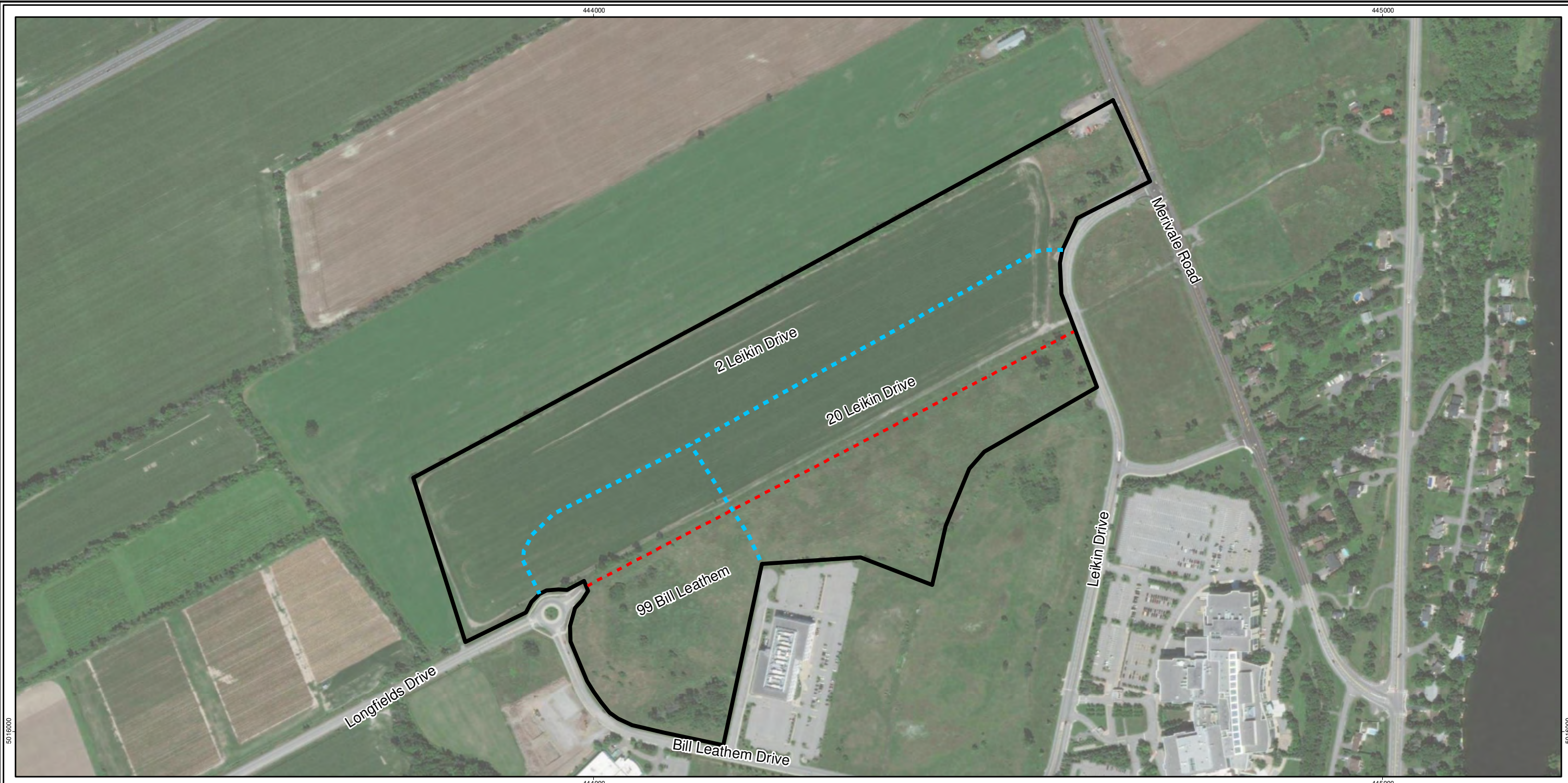
3) Service Layer Credits
 4) Imagery Credits: © OpenStreetMap
 (and) contributors, CC-BY-SA
 Sources: Esri, HERE, Garmin, USGS,

OFFICE LOCATION SEATTLE	
DATE PLOTTED 13-May-2021	DATE REVISED 13-May-2021
APPROX. SCALE 1:24,000	
PAGE SIZE 8.5 x 11 in	

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REVIEWED MG
CHECKED DH
DRAWN MVI

Geosyntec consultants
 TRUE NORTH


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- Legend:**
- Phase One Property Boundary
 - Sewer Line
 - Approximate Site Parcel Boundary

Notes:
 1) Map Projection: NAD 1983 UTM Zone 18N
 2) Data Source Credits

3) Service Layer Credits
 4) Imagery Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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FIGURE 2

SITE LAYOUT MAP

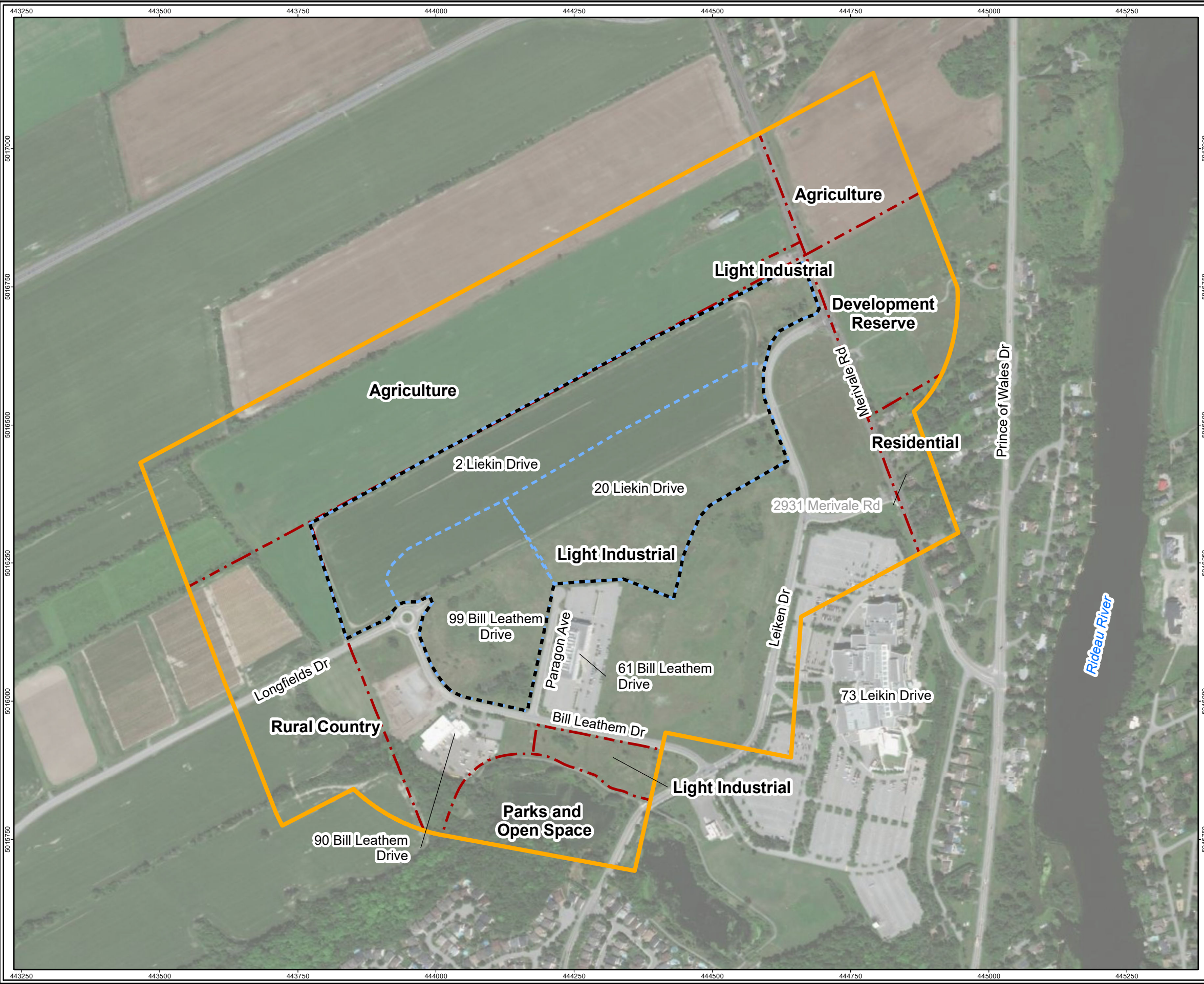
99 BILL LEATHAM DRIVE AND 2 AND 20 LEIKIN DRIVE,
 OTTAWA, ONTARIO

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DATE PLOTTED	13-May-2021	REVIEWED	MG
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50116000



- Legend**
- Phase One Property Boundary
 - Phase One Study Area (250 m from Phase One Property Boundary)
 - Parcel Boundaries
 - Zoning Boundaries within Phase One Study Area

ADDRESS Former Address (Location Approximate)

- Notes:**
- 1) Map Projection: NAD 1983 UTM Zone 18N
 - 2) Zoning Boundaries within Study Area source: <https://maps.ottawa.ca/geottawa/>, retrieved April 28, 2021
 - 3) Imagery Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

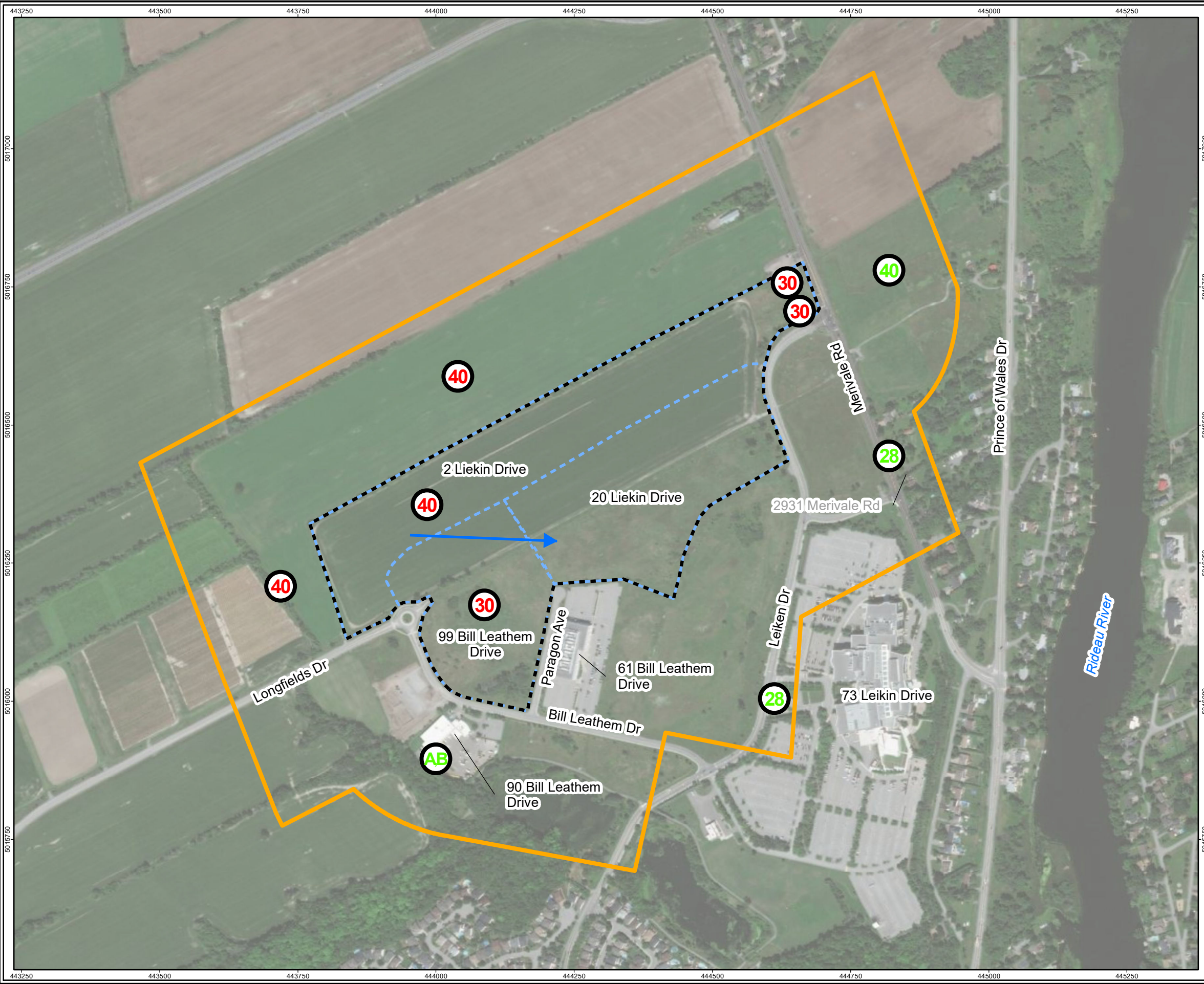
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FIGURE 3
Phase One Study Area
 99 Bill Leatham Drive and
 2 and 20 Leikin Drive

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DATE PLOTTED	13-May-2021	REVIEWED	MG
APPROX. SCALE	1:7,000	CHECKED	DH
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Geosyntec
 consultants
 TRUE NORTH

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Legend

- 40 PCA resulting in an APEC
- A Off-Site PCA not resulting in an APEC
- Inferred Groundwater Flow Direction
- Phase One Property Boundary
- Phase One Study Area (250 m from Phase One Property Boundary)
- Parcel Boundaries

ADDRESS Former Address (Location Approximate)

Potentially Contaminating Activities (PCAs) per Table 2, Schedule D of O. Reg. 153/04

- #28 - Gasoline and Associated Products Storage in Fixed Tanks
- #30 - Importation of Fill Material of Unknown Quantity
- #40 - Pesticide (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

Non-Defined PCAs:
 A - Waste Generation
 B - Spills

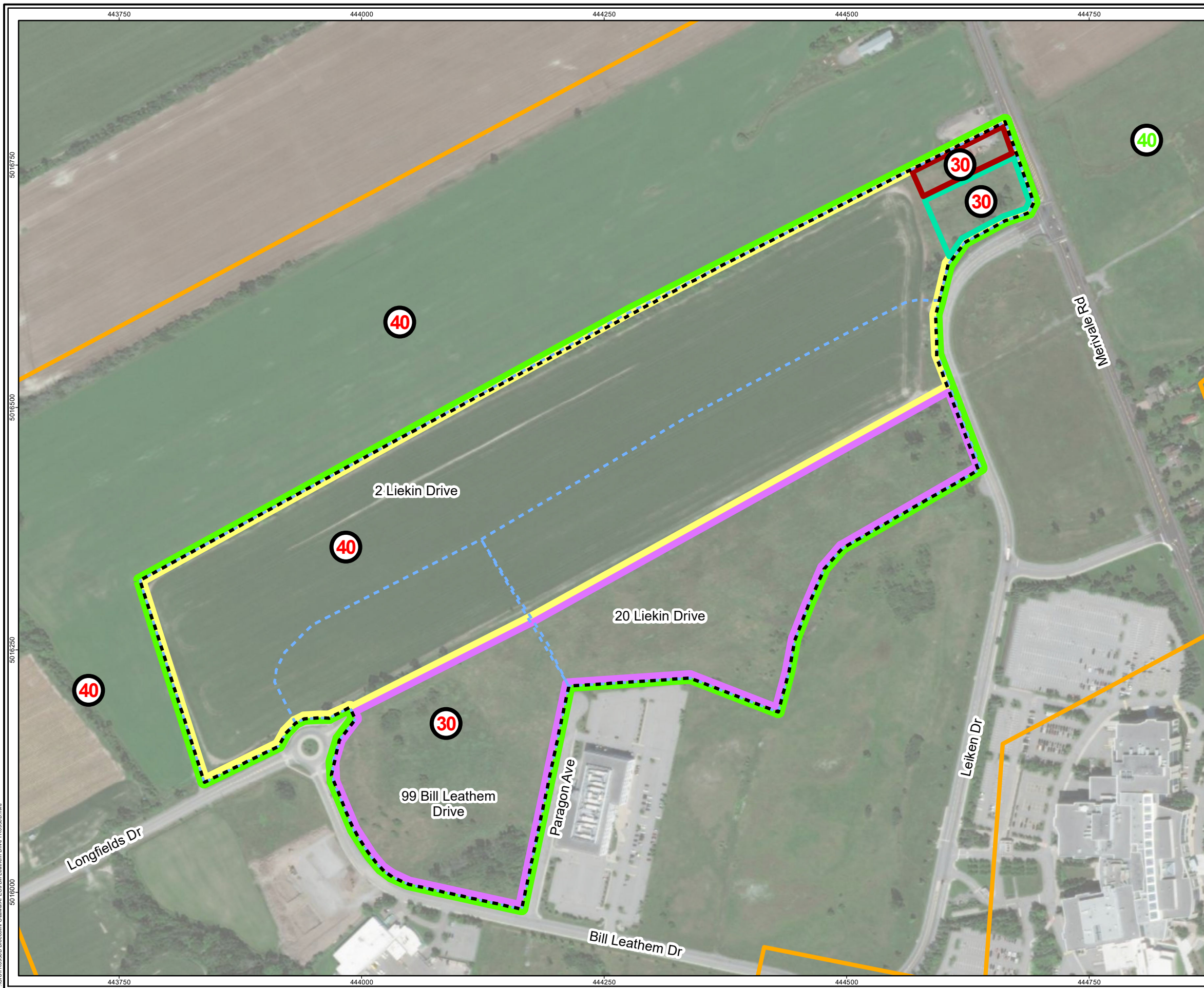
Notes:
 1) Map Projection: NAD 1983 UTM Zone 18N
 2) Imagery Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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FIGURE 4
Potentially Contaminating Activities
 99 Bill Leatham Drive and
 2 and 20 Leikin Drive

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DATE PLOTTED 14-May-2021	DATE REVISED 14-May-2021	REVIEWED MG	
APPROX. SCALE 1:7,000	PAGE SIZE 11 x 17 in	CHECKED DH	
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- Legend**
- 40 PCA resulting in an APEC
 - Phase One Property Boundary
 - Phase One Study Area (250 m from Phase One Property)
 - Parcel Boundaries
 - APEC #1 - Historical Usage of Pesticides on whole of Phase One Property
 - APEC #2 - Importation of Fill of Unknown Quantity
 - APEC #3 - Importation of Fill of Unknown Quality (Encroachment)
 - APEC #4 - Importation of Fill of Unknown Quality (Berm)
 - APEC #5 - Current/Historical Usage of Pesticides on Adjoining Lands to the North, West, and East

Notes:
 1) Map Projection: NAD 1983 UTM Zone 18N
 2) Sanitary Sewer source: <https://maps.ottawa.ca/geoottawa/>, retrieved April 28, 2021
 3) Imagery Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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FIGURE 5
Areas of Potential Environmental Concern

99 Bill Leatham Drive and
 2 and 20 Leikin Drive

OFFICE LOCATION GUELPH		REVISION 00	<p>TRUE NORTH</p>
DATE PLOTTED 14-May-2021	DATE REVISED 14-May-2021	REVIEWED MG	
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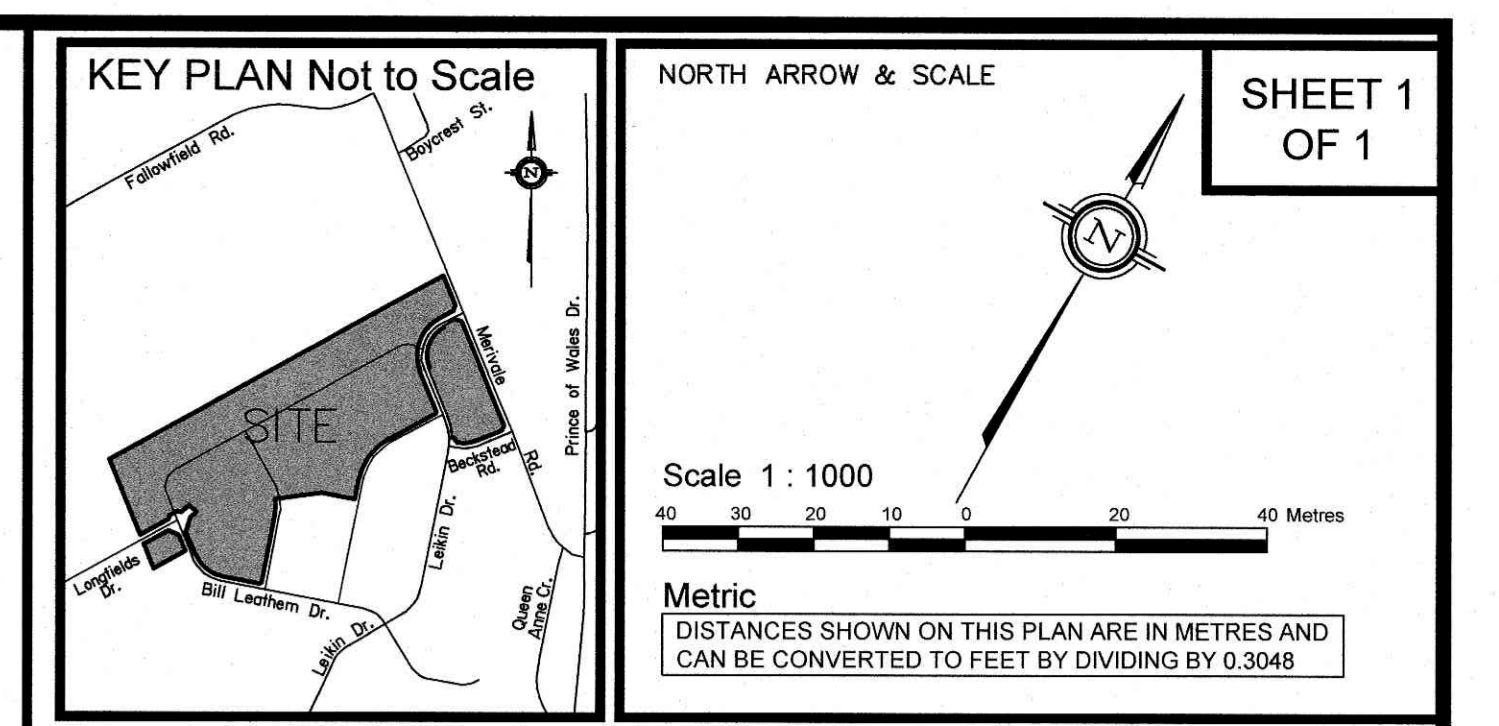
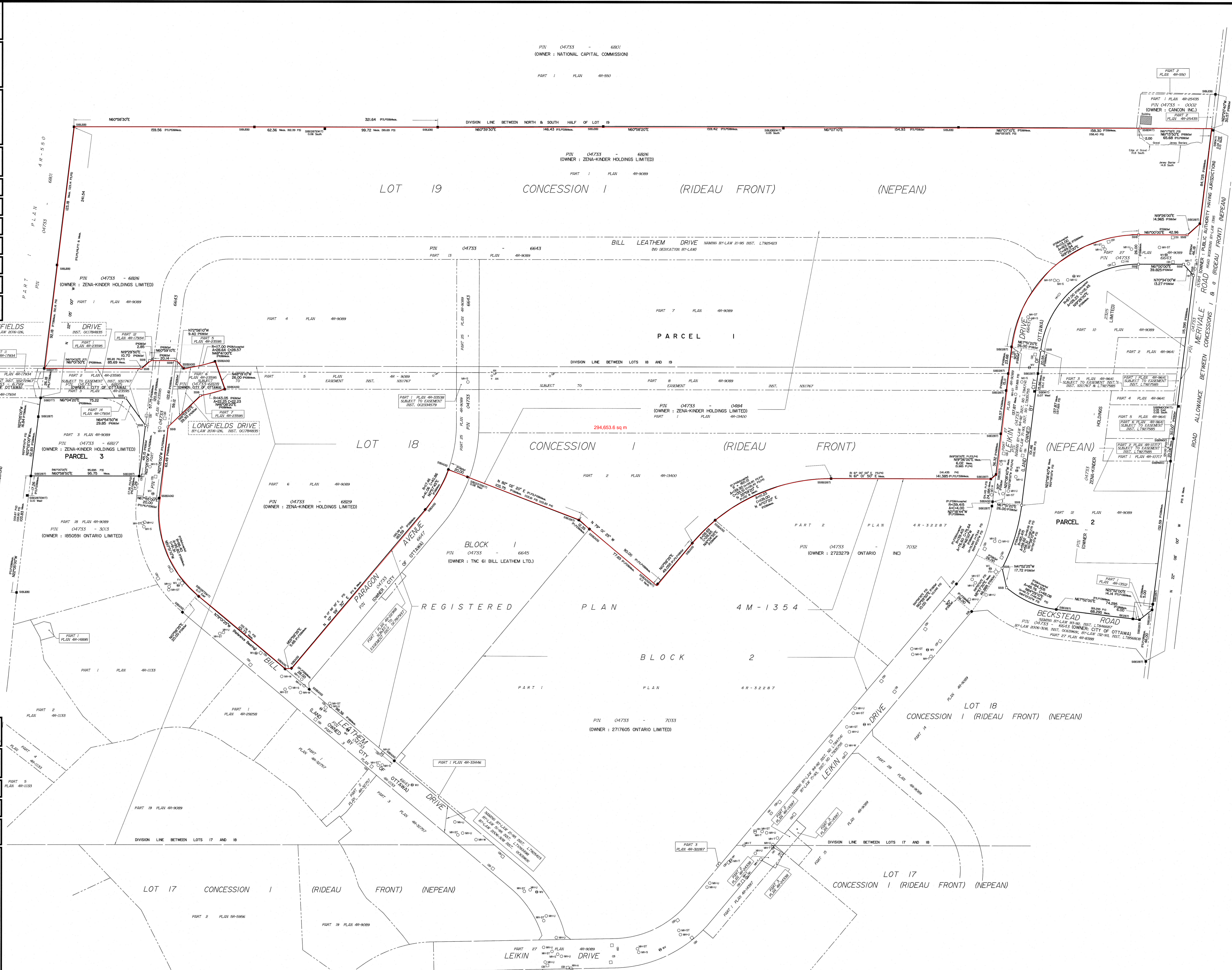
P:\GIS\FIG0505B Biscuits\APECs\99 Bill Leatham Drive FIG0505B.mxd

APPENDIX B
PLAN OF SURVEY

- 1 MONUMENTS HAVE BEEN PLACED AT ALL MAJOR CORNERS OF THE BOUNDARY OF THE SURVEYED PROPERTY UNLESS ALREADY MARKED OR REFERENCED BY EXISTING MONUMENTS OR WITNESSES MONUMENTS IN CLOSE PROXIMITY OF THE CORNER.
- 2 ALTAACSM LAND TITLE SURVEY OF
South Nervale Business Park
OTTAWA, ONTARIO
- 3 FLOOD INFORMATION
THE PROPERTY IS NOT LOCATED IN A 100-YEAR FLOOD PLAIN OR IN AN AREA SUBJECT TO A REGULATION PURSUANT TO THE CONSERVATIONS AUTHORITIES ACT (ONTARIO) DESIGNATING IT AS AN AREA SUSCEPTIBLE TO FLOODING OR WHERE FILLING IN OF LAND IS PROHIBITED OR WHERE DIVERTING OR ALTERING A STREAM OR WATERCOURSE IS PROHIBITED.
- 4 LAND AREA
PARCEL 1 = 30.58248 HECTARES (75.57 ACRES)
PARCEL 2 = 3.79887 HECTARES (9.387 ACRES)
PARCEL 3 = 0.63822 HECTARES (1.572 ACRES)
- 6 ZONING INFORMATION
LIGHT INDUSTRIAL, SUBZONE 9-11.9
- 7 BUILDING INFORMATION
NO BUILDINGS.
- 8 SUBSTANTIAL FEATURES
NO SUBSTANTIAL FEATURES.
- 9 PARKING STRUCTURES
REGULAR = 0 HANDICAP = 0 TOTAL = 0
- 11 UNDERGROUND SERVICES
SEE PLAN FOR VISIBLE HARDWARE ONLY. NO UNDERGROUND LOCATES WERE PERFORMED.
- 13 ADJOINING OWNERS
SEE PLAN.
- 14 ACCESS TO THE NEAREST INTERSECTING STREET
THE PROPERTY FRONTS ONTO LEIKIN DRIVE, PARAGON AVENUE, BILL LEATHEM DRIVE AND LONGFIELDS DRIVE.

- 16 EARTH MOVING NOTE
THERE IS NO OBSERVABLE EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS WITHIN RECENT MONTHS.
- 17 PROPOSED CHANGES IN STREET RIGHT-OF-WAY LINES
THERE IS NO OBSERVABLE EVIDENCE OF CHANGES TO EXISTING RIGHTS-OF-WAY OF PUBLIC STREETS.
- 18 EASEMENTS
EVIDENCED IN FAVOR OF THE CITY OF OTTAWA (AS IN INSTRUMENTS N311767 & N311767) AS ILLUSTRATED ON THE PLAN.
- 19 PROFESSIONAL LIABILITY INSURANCE POLICY
PROVIDED IN SEPARATE DOCUMENT.

- BEARING NOTE**
BEARINGS ARE GRID, DERIVED FROM THE WESTERLY LIMIT OF BILL LEATHEM DRIVE SHOWN TO BE N79°20'25"W ON PLAN 4R-32287 AND ARE REFERRED TO THE CENTRAL MERIDIAN OF MAP ZONE 18 (1820 WEST CONZONE 1) NAD-83 (GRID).
- LEGEND AND ABBREVIATIONS**
- | | |
|--|---|
| ○ _{SM} - SURVEY MONUMENT PLACED | ○ _{WV} - WATER VALVE |
| ○ _{SM} - SURVEY MONUMENT FOUND | ○ _{WH-S} - MAINTENANCE HOLE (STORM SEWER) |
| ○ _{SM} - STANDARD IRON BAR | ○ _{WH-M} - MAINTENANCE HOLE (SEWER) |
| ○ _{SM} - SHORT STANDARD IRON BAR | ○ _{WH-W} - MAINTENANCE HOLE (WATER) |
| ○ _{SM} - IRON BAR | ○ _{WH-T} - MAINTENANCE HOLE (TRAFFIC) |
| ○ _{SM} - SURVEY MONUMENT 0.3 metres LONG | ○ _{WH-U} - MAINTENANCE HOLE (UNIDENTIFIED) |
| ○ _{SM} - WITNESS | ○ _{CB} - CATCH BASIN INLET |
| ○ _{MS} - MEASURED | ○ _{CB} - CATCH BASIN |
| ○ _{MS} - ANNE'S, O'SULLIVAN, VOLLEBEKK LTD. | ○ _{HM} - HANDHOLE |
| (P1) - REGISTERED PLAN 4M-1354 | |
| (P2) - PLAN 4R-2088 | |
| (P3) - PLAN 4R-2400 | |
| (P4) - PLAN 4R-500 | |
| (P5) - PLAN 4R-2350 | |
| (P6) - PLAN 4R-17934 | |
| (P7) - PLAN 4R-23435 | |
| (P8) - PLAN 4R-8641 | |
| (P9) - PLAN 4R-10717 | |
| (P10) - PLAN 4R-13822 | |
| (P11) - PLAN 4R-11153 | |
| (P12) - PLAN 4R-11153 | |
| (P13) - UTILITY POLE | |
| (A) - ANCHOR | |



PLAN OF SURVEY OF
PIN 04733-6826(LT),
PART OF PIN 04733-6643(LT),
PIN 04733-6829(LT),
PIN 04733-0484(LT),
PIN 04733-6827(LT) and
PIN 4733-2325(LT)
PART OF LOTS 18 and 19
CONCESSION 1 (RIDEAU FRONT)
Geographic Township of Nepean

Surveyed by Annis, O'Sullivan, Vollebakk Ltd.
THIS SURVEY DESCRIBES AND DELIMITS THE SAME LAND AS DESCRIBED IN THE TITLE COMMITMENT AS REFERENCED ABOVE.

- SURVEYOR'S NOTES**
- Note 1: The subject property has access to public utilities from the public streets adjacent to the subject property.
 - Note 2: The subject property abuts, without gaps, gores or strips, and has vehicular and pedestrian ingress to and egress from Leikin Drive, Paragon Avenue, Bill Leatham Drive and Longfields Drive, which are completed, dedicated and accepted public rights of way.
 - Note 3: Except as shown and noted on this Survey, based on a careful physical inspection of the subject property, a zoning report or letter provided by the client, and matters of record or provided by the title company or client, there are no visible:
 - (i) height or bulk restrictions, setback lines, parking requirements, party walls, encroachments or overhangs of any improvements upon any easement, right-of-way or adjacent land or encroachment of the improvements located on adjacent land onto the subject property other than as noted on the plan.
 - Note 4: The subject property does not appear to serve any adjoining property for utilities, drainage, structural support or ingress or egress.
 - Note 5: The legal description on and depiction of the subject property contained in the survey describe and depict the same property described in the legal description contained in that certain Title Commitment/Preliminary Report issued by _____ on _____ under Order No. _____ (No report provided).
 - Note 6: The record description of the subject property forms mathematically closed figures.
 - Note 7: There is no observed evidence of the site being used as a solid waste dump, sump or sanitary landfill.
 - Note 8: The survey reflects the location of wetlands on the subject property based on the wetland delineation provided by the client. (No report provided).

SURVEYOR'S CERTIFICATE
ALTAACSM Land Title Survey
Surveyor's Certification

To: Medusa Limited Partnership & Medusa Coinvest Limited Partnership
16766 He Trans-Canada, Suite 500
Kirkland, Québec H9H 4M7

This is to certify that this map or plat and the survey on which it is based were made in accordance with the Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes items 1, 2, 3, 4, 5(a), 6(a), 8, 9, 11, 13, 14, 16, 17 and 18 of Table A thereof. The work was completed on March 30th, 2021.

Registered Surveyor: V. Andrew Shelp
Ontario Land Surveyor No. 17118
In the Province of Ontario
Date of Survey: March 30th, 2021
AOV Reference: 21282-21

Surveyor's Certificate
I CERTIFY THAT:
1. This survey and plan are correct and in accordance with the Surveys Act and the Regulations made under them.
2. The survey was completed on the 30th day of March, 2021.

Annis, O'Sullivan, Vollebakk Ltd.
Date: _____
Ontario Land Surveyor

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
2165344
THIS PLAN NOT VALID UNLESS IT IS REGISTERED IN THE SURVEY ACT AND THE SURVEY ACT IS IN FORCE.

APPENDIX C
CHAIN OF TITLE

CHAIN OF TITLE REPORT

Project #: 21041400366
 Address: 99 Bill Leather Drive, Nepean
 Legal: Pt Lots 18 & 19 Con 1 RF
 Description: _____

Searched at: Ottawa
 LRO #: 4

Page 1

PIN #: 04733-6826 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent (Pt Lt 18 - 200 Acres)	17 01 1832	Crown	John SMITH
	Patent (PT Lt 19 - 200 Acres)	20 10 1834	Crown	Maria ROBERTSON
529	Deed	08 05 1832	John Smith	Asza WERDON
1161	Deed	02 07 1837	Maria Robertson	Benjamin HOLMES
1692	Deed	10 04 1841	Asza Werdon	Sidney HELMER
5150	Deed	26 04 1841	Sidney Helmer	James BURROWS
4465	Deed	28 02 1850	Benjamin Holmes	William HOPPER
4466	Deed	28 02 1850	William Hopper	George HOPPER
4850	Deed	15 01 1851	George Hopper	John STINSON

Cont'd on Page 2

CHAIN OF TITLE REPORT

Project #: 21041400366
 Address: 99 Bill Leather Drive, Nepean
 Legal Description: Pt Lots 18 & 19 Con 1 RF

Searched at: Ottawa
 LRO #: 4

Page 2

PIN #: 04733-6826 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
415	Deed	09 02 1870	James Burrows	Henry BURROWS
1205	Deed	01 05 1872	John Stinson	James FALLS
3451	Deed	10 04 1875	Henry Burrows	William FULFORD
6599*	Deed	03 11 1879	William Fulford	Jane JOHNSTON
11702	Deed	30 04 1887	James Falls	John FALLS
1603	Deed	06 02 1893	Jane Johnston	John STINSON
31882	Deed	02 04 1918	John Falls	William J. R. FALLS
39432	Deed	05 07 1926	John Stinson	Frederick STINSON
51421	Deed (Pt Lt 18)	19 05 1944	Frederick Stinson	Cecil RIVINGTON

Cont'd on Page 3

CHAIN OF TITLE REPORT

Project #: 21041400366
 Address: 99 Bill Leather Drive, Nepean
 Legal Description: Pt Lots 18 & 19 Con 1 RF

Searched at: Ottawa
 LRO #: 4

PIN #: 04733-6826 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
54669	Deed (Pt Lt 19)	04 05 1946	William J. R. Falls	Cecil RIVINGTON
317568	Deed	31 12 1953	Cecil Rivington	Zena LEIKIN
479793	Deed (Pt Lot 19)	09 07 1964	Zena Leikin	Zena Holdings Limited
483790	Deed (Pt Lot 18)	29 09 1964	Zena Leikin	Zena Holdings Limited
LT812105	Deed	05 01 1993	Zena - Kinder Holdings Limited (Formerly Zena Holdings Limited)	The Corporation of The City of Nepean
LT815265	Deed (Present Owner)	29 01 1993	The Corporation of The City of Nepean	Zena - Kinder Holdings Limited

LAND
REGISTRY
OFFICE #4

04733-6826 (LT)

PAGE 1 OF 2
PREPARED FOR bertucci
ON 2021/04/28 AT 21:06:14

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PART OF LOTS 18 AND 19 CONCESSION 1, RF, NEPEAN; CITY OF OTTAWA

PROPERTY REMARKS: CORRECTION: DOCUMENT NS146176 ADDED TO 04733-6826 ON 2014/01/06 AT 11:52 BY IACOVITTI, SUZANNE. CORRECTION: DOCUMENT NS146175 ADDED TO 04733-6826 ON 2014/01/06 AT 11:59 BY IACOVITTI, SUZANNE.

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
DIVISION FROM 04733-0482

PIN CREATION DATE:
2009/05/20

OWNERS' NAMES
ZENA-KINDER HOLDINGS LIMITED

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<i>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2009/05/20 **</i>						
CR475141	1964/04/06	NOTICE <i>REMARKS: SKETCH ATTACHED</i>				C
N146175	1982/03/26	APL (GENERAL) <i>REMARKS: AMENDMENT TO AIRPORT ZONING REGULATIONS</i>		*** DELETED AGAINST THIS PROPERTY ***		
N146176	1982/03/26	APL (GENERAL) <i>REMARKS: AMENDMENT TO AIRPORT ZONING REGULATIONS</i>		*** DELETED AGAINST THIS PROPERTY ***		
NS146175	1982/03/26	ORDER IN COUNCIL <i>REMARKS: AMENDMENT</i>				C
NS146176	1982/03/26	ORDER IN COUNCIL <i>REMARKS: AMENDMENT</i>				C
LT815265	1993/01/29	TRANSFER	\$1	THE CORPORATION OF THE CITY OF NEPEAN	ZENA-KINDER HOLDINGS LIMITED	C
4R9089	1993/05/04	PLAN REFERENCE				C
LT1098951	1998/01/08	APL ANNEX REST COV <i>REMARKS: FOR 50 YEARS FROM 98/01/08</i>		ZENA-KINDER HOLDINGS LIMITED		C
LT1098953	1998/01/08	APL ANNEX REST COV		ZENA-KINDER HOLDINGS LIMITED		C
4R17934	2002/08/28	PLAN REFERENCE				C
OC1135995	2010/07/16	NOTICE <i>REMARKS: AIRPORT ZONING REGULATION</i>		HER MAJESTY THE QUEEN IN RIGHT OF CANADA		C
OC1550482	2014/01/06	LR'S ORDER		LAND REGISTRAR, OTTAWA-CARLETON LAND REGISTRY OFFICE		C

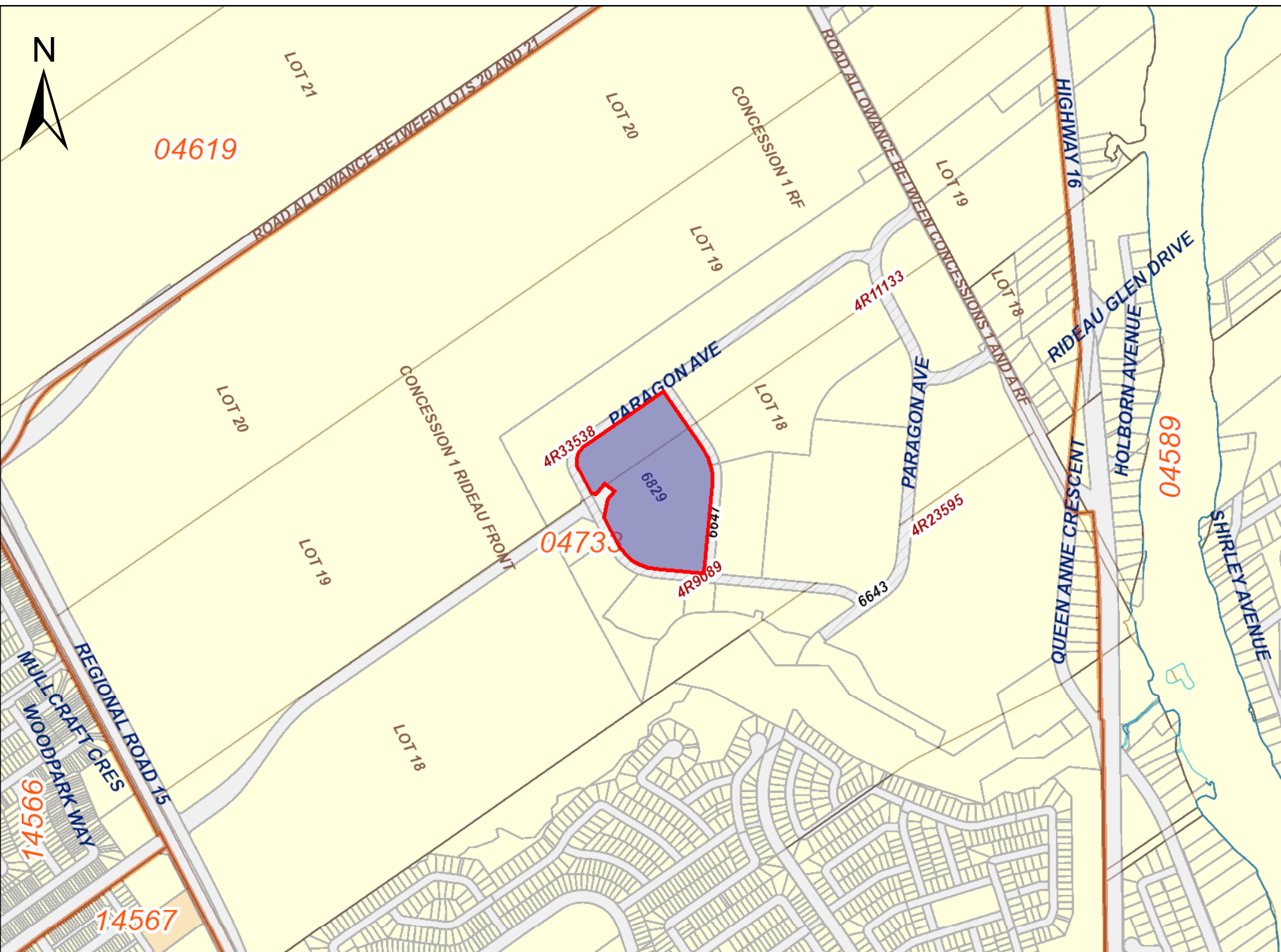
NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

LAND
 REGISTRY
 OFFICE #4

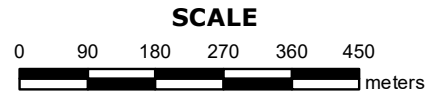
04733-6826 (LT)

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
REMARKS: DELETING N146175 AND N146176 AND ADDING NS146175 AND NS146176						



PRINTED ON 28 APR, 2021 AT 21:01:39
FOR BERTUCCI



PROPERTY INDEX MAP

OTTAWA-CARLETON(No. 04)

LEGEND

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	0449
BLOCK NUMBER	08050
GEOGRAPHIC FABRIC	
EASEMENT	

THIS IS NOT A PLAN OF SURVEY

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED



CHAIN OF TITLE REPORT

Project #: 21041400366
 Address: 2 Leikin Drive, Nepean
 Legal Description: Pt Lots 18 & 19 Con 1 RF
Pt 5 4R8388 & Pts 4-6 4R8276

Searched at: Ottawa
 LRO #: 4

Page 1

PIN #: 04733-6829 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent (Pt Lt 18 - 200 Acres)	17 01 1832	Crown	John SMITH
	Patent (PT Lt 19 - 200 Acres)	20 10 1834	Crown	Maria ROBERTSON
529	Deed	08 05 1832	John Smith	Asza WERDON
1161	Deed	02 07 1837	Maria Robertson	Benjamin HOLMES
1692	Deed	10 04 1841	Asza Werdon	Sidney HELMER
5150	Deed	26 04 1841	Sidney Helmer	James BURROWS
4465	Deed	28 02 1850	Benjamin Holmes	William HOPPER
4466	Deed	28 02 1850	William Hopper	George HOPPER
4850	Deed	15 01 1851	George Hopper	John STINSON

Cont'd on Page 2

CHAIN OF TITLE REPORT

Project #: 21041400366
 Address: 2 Leikin Drive, Nepean
 Legal Description: Pt Lots 18 & 19 Con 1 RF
Pt 5 4R8388 & Pts 4-6 4R8276
 PIN #: 04733-6829 (LT)

Searched at: Ottawa
 LRO #: 4

Page 2

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
415	Deed	09 02 1870	James Burrows	Henry BURROWS
1205	Deed	01 05 1872	John Stinson	James FALLS
3451	Deed	10 04 1875	Henry Burrows	William FULFORD
6599*	Deed	03 11 1879	William Fulford	Jane JOHNSTON
11702	Deed	30 04 1887	James Falls	John FALLS
1603	Deed	06 02 1893	Jane Johnston	John STINSON
31882	Deed	02 04 1918	John Falls	William J. R. FALLS
39432	Deed	05 07 1926	John Stinson	Frederick STINSON
51421	Deed (Pt Lt 18)	19 05 1944	Frederick Stinson	Cecil RIVINGTON

Cont'd on Page 3

CHAIN OF TITLE REPORT

Project #: 21041400366
 Address: 2 Leikin Drive, Nepean
 Legal: 2 Leikin Drive, Nepean
 Description: Pt Lots 18 & 19 Con 1 RF
Pt 5 4R8388 & Pts 4-6 4R8276
 PIN #:

Searched at: Ottawa
 LRO #: 4

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
54669	Deed (Pt Lt 19)	04 05 1946	William J. R. Falls	Cecil RIVINGTON
317568	Deed	31 12 1953	Cecil Rivington	Zena LEIKIN
479793	Deed (Pt Lot 19)	09 07 1964	Zena Leikin	Zena Holdings Limited
483790	Deed (Pt Lot 18)	29 09 1964	Zena Leikin	Zena Holdings Limited
N311767	Easement	31 10 1985	Zena Holdings Limited	The Corporation of The City of Nepean
LT812105	Deed	05 01 1993	Zena - Kinder Holdings Limited (Formerly Zena Holdings Limited)	The Corporation of The City of Nepean
LT815265	Deed (Present Owner)	29 01 1993	The Corporation of The City of Nepean	Zena - Kinder Holdings Limited

LAND
REGISTRY
OFFICE #4

04733-6829 (LT)

PAGE 1 OF 2
PREPARED FOR bertucci
ON 2021/04/28 AT 20:59:28

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PART OF LOTS 18 AND 19 CONCESSION 1 RF, PART 5 PLAN 4R8388 AND PARTS 4, 5 AND 6 PLAN 4R8276, EXCEPT PART 4 PLAN 4R8388, AND EXCEPT PARTS 5, 6 AND 7 PLAN 4R23595, NEPEAN. S/T N311767; CITY OF OTTAWA

PROPERTY REMARKS: CORRECTION: DOCUMENT NS146176 ADDED TO 04733-6829 ON 2014/01/06 AT 11:53 BY IACOVITTI, SUZANNE. CORRECTION: DOCUMENT NS146175 ADDED TO 04733-6829 ON 2014/01/06 AT 11:59 BY IACOVITTI, SUZANNE.

ESTATE/QUALIFIER: FEE SIMPLE ABSOLUTE
RECENTLY: DIVISION FROM 04733-0483

PIN CREATION DATE: 2009/05/20

OWNERS' NAMES: ZENA-KINDER HOLDINGS LIMITED
CAPACITY SHARE: BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2009/05/20 **						
CR475141	1964/04/06	NOTICE REMARKS: SKETCH ATTACHED				C
N146175	1982/03/26	APL (GENERAL) REMARKS: AMENDMENT TO AIRPORT ZONING REGULATIONS		*** DELETED AGAINST THIS PROPERTY ***		
N146176	1982/03/26	APL (GENERAL) REMARKS: AMENDMENT TO AIRPORT ZONING REGULATIONS		*** DELETED AGAINST THIS PROPERTY ***		
NS146175	1982/03/26	ORDER IN COUNCIL REMARKS: AMENDMENT				C
NS146176	1982/03/26	ORDER IN COUNCIL REMARKS: AMENDMENT				C
N311767	1985/10/31	TRANSFER EASEMENT REMARKS: PARTIALLY RELEASED BY N614102			THE CORPORATION OF THE CITY OF NEPEAN	C
LT815265	1993/01/29	TRANSFER	\$1	THE CORPORATION OF THE CITY OF NEPEAN	ZENA-KINDER HOLDINGS LIMITED	C
4R9089	1993/05/04	PLAN REFERENCE				C
LT1098951	1998/01/08	APL ANNEX REST COV REMARKS: FOR 50 YEARS FROM 98/01/08		ZENA-KINDER HOLDINGS LIMITED		C
LT1098953	1998/01/08	APL ANNEX REST COV		ZENA-KINDER HOLDINGS LIMITED		C
OC1135995	2010/07/16	NOTICE REMARKS: AIRPORT ZONING REGULATION		HER MAJESTY THE QUEEN IN RIGHT OF CANADA		C

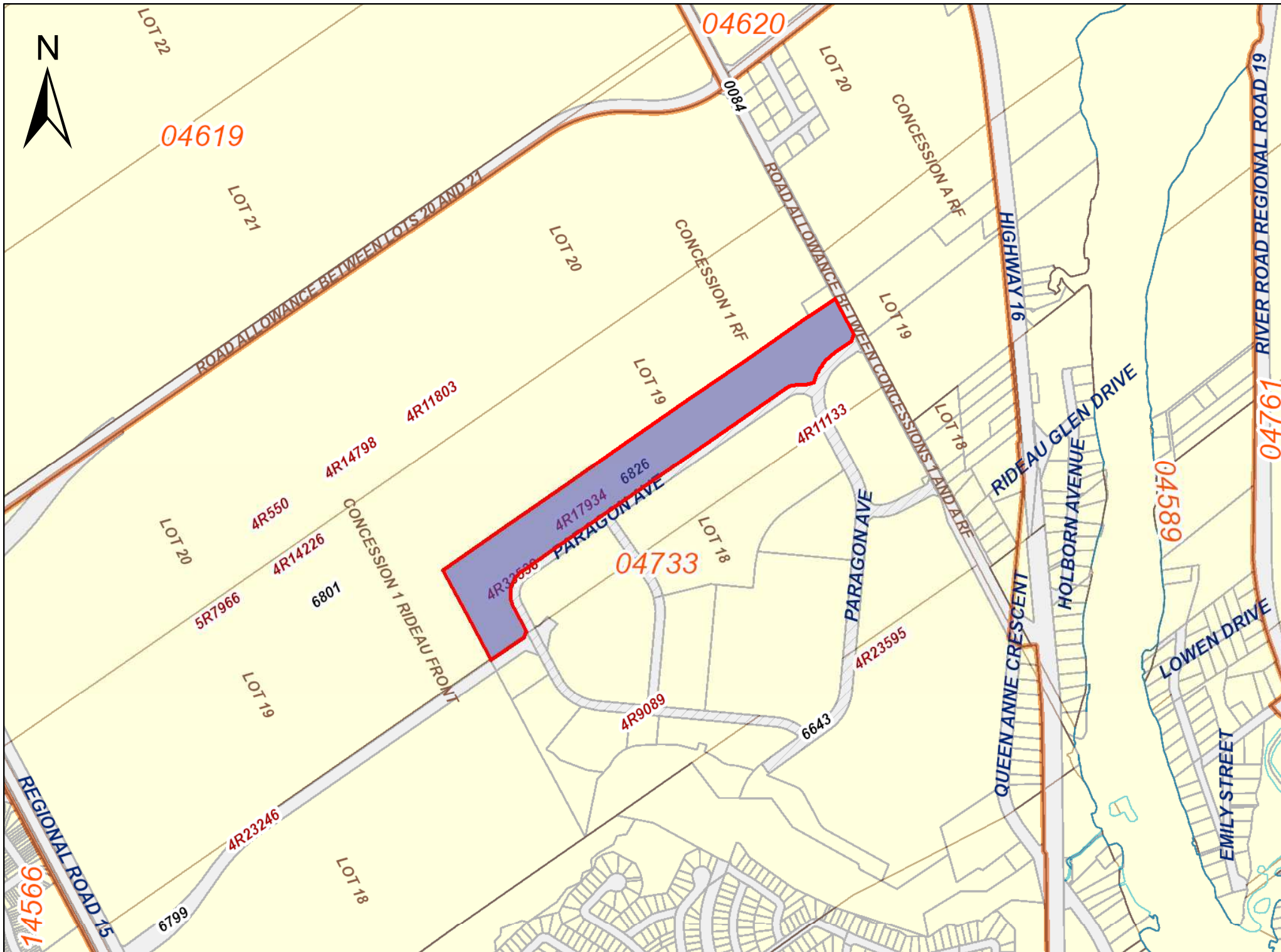
NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

LAND
 REGISTRY
 OFFICE #4

04733-6829 (LT)

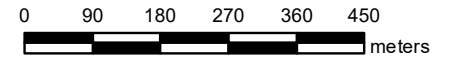
* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
OC1550482	2014/01/06	LR'S ORDER		LAND REGISTRAR, OTTAWA-CARLETON LAND REGISTRY OFFICE		C
<i>REMARKS: DELETING N146175 AND N146176 AND ADDING NS146175 AND NS146176</i>						



PRINTED ON 28 APR, 2021 AT 21:07:49
FOR BERTUCCI

SCALE



PROPERTY INDEX MAP

OTTAWA-CARLETON(No. 04)

LEGEND

- FREEHOLD PROPERTY
- LEASEHOLD PROPERTY
- LIMITED INTEREST PROPERTY
- CONDOMINIUM PROPERTY
- RETIRED PIN (MAP UPDATE PENDING)
- PROPERTY NUMBER 0449
- BLOCK NUMBER 08050
- GEOGRAPHIC FABRIC
- EASEMENT

THIS IS NOT A PLAN OF SURVEY

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED



CHAIN OF TITLE REPORT

Project #: 21041400366
 Address: 20 Leikin Drive, Nepean
 Legal: Pt Lots 18 & 19 Con 1 RF
 Description: Pt 3 4R-8388 & Pts 7-9 4R-8276

Searched at: Ottawa
 LRO #: 4

Page 1

PIN #: 04733-0484 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
	Patent (Pt Lt 18 - 200 Acres)	17 01 1832	Crown	John SMITH
	Patent (PT Lt 19 - 200 Acres)	20 10 1834	Crown	Maria ROBERTSON
529	Deed (Pt Lot 18)	08 05 1832	John Smith	Asza WERDON
1161	Deed (Pt Lot 19)	02 07 1837	Maria Robertson	Benjamin HOLMES
1692	Deed	10 04 1841	Asza Werdon	Sidney HELMER
5150	Deed	26 04 1841	Sidney Helmer	James BURROWS
4465	Deed	28 02 1850	Benjamin Holmes	William HOPPER
4466	Deed	28 02 1850	William Hopper	George HOPPER
4850	Deed	15 01 1851	George Hopper	John STINSON

Cont'd on Page 2

CHAIN OF TITLE REPORT

Project #: 21041400366
 Address: 20 Leikin Drive, Nepean
 Legal Description: Pt Lots 18 & 19 Con 1 RF
Pt 3 4R-8388 & Pts 7-9 4R-8276

Searched at: Ottawa
 LRO #: 4

Page 2

PIN #: 04733-0484 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
415	Deed (Pt Lot 18)	09 02 1870	James Burrows	Henry BURROWS
1205	Deed (Pt Lot 19)	01 05 1872	John Stinson	James FALLS
3451	Deed	10 04 1875	Henry Burrows	William FULFORD
6599	Deed	03 11 1879	William Fulford	Jane JOHNSTON
11702	Deed	30 04 1887	James Falls	John FALLS
1603	Deed	06 02 1893	Jane Johnston	John STINSON
31882	Deed	02 04 1918	John Falls	William J. R. FALLS
39432	Deed	05 07 1926	John Stinson	Frederick STINSON
51421	Deed (Pt Lt 18)	19 05 1944	Frederick Stinson	Cecil RIVINGTON

Cont'd on Page 3

CHAIN OF TITLE REPORT

Project #: 21041400366
 Address: 20 Leikin Drive, Nepean
 Legal: Pt Lots 18 & 19 Con 1 RF
 Description: Pt 3 4R-8388 & Pts 7-9 4R-8276

Searched at: Ottawa
 LRO #: 4

Page 3

PIN #: 04733-0484 (LT)

INSTR #	DOC. TYPE	REG. DATE	PARTY FROM	PARTY TO
54669	Deed (Pt Lt 19)	04 05 1946	William J. R. Falls	Cecil RIVINGTON
317568	Deed	31 12 1953	Cecil Rivington	Zena LEIKIN
479793	Deed (Pt Lot 19)	09 07 1964	Zena Leikin	Zena Holdings Limited
483790	Deed (Pt Lot 18)	29 09 1964	Zena Leikin	Zena Holdings Limited
N311767	Easement	31 10 1985	Zena Holdings Limited	The Corporation of The City of Nepean
LT812105	Deed	05 01 1993	Zena - Kinder Holdings Limited (Formerly Zena Holdings Limited)	The Corporation of The City of Nepean
LT815265	Deed (Present Owner)	29 01 1993	The Corporation of The City of Nepean	Zena - Kinder Holdings Limited

LAND
REGISTRY
OFFICE #4

04733-0484 (LT)

PAGE 1 OF 2
PREPARED FOR bertucci
ON 2021/04/28 AT 20:01:41

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: CONSOLIDATION OF VARIOUS PROPERTIES PT LTS 18 & 19 CON 1 RF, PT 3 4R-8388 AND PTS 7, 8 & 9 4R-8276, S/T N311767, NEPEAN

PROPERTY REMARKS: CORRECTION: INSTRUMENT NUMBER N580302 WAS ENTERED IN ERROR AGAINST THIS PROPERTY AND WAS REMOVED AND CERTIFIED ON 1997/12/04 BY KATHLEEN DILLABOUGH.
CORRECTION: DOCUMENT NS146176 ADDED TO 04733-0484 ON 2014/01/06 AT 11:48 BY IACOVITTI, SUZANNE. CORRECTION: DOCUMENT NS146175 ADDED TO 04733-0484 ON 2014/01/06 AT 11:56 BY IACOVITTI, SUZANNE.

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
CONSOLIDATION FROM 04733-0088, 04733-0436

PIN CREATION DATE:
1993/04/16

OWNERS' NAMES
ZENA-KINDER HOLDINGS LIMITED

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1993/01/25 ON THIS PIN**</p> <p>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1993/04/16**</p> <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1993/04/16 **</p>						
CR475141	1964/04/06	NOTICE REMARKS: SKETCH ATTACHED				C
N146175	1982/03/26	APL (GENERAL) REMARKS: AMENDMENT TO AIRPORT ZONING REGULATIONS		*** DELETED AGAINST THIS PROPERTY ***		
N146176	1982/03/26	APL (GENERAL) REMARKS: AMENDMENT TO AIRPORT ZONING REGULATIONS		*** DELETED AGAINST THIS PROPERTY ***		
NS146175	1982/03/26	ORDER IN COUNCIL REMARKS: AMENDMENT				C
NS146176	1982/03/26	ORDER IN COUNCIL REMARKS: AMENDMENT				C
N311767	1985/10/31	TRANSFER EASEMENT REMARKS: PARTIALLY RELEASED BY N614102			THE CORPORATION OF THE CITY OF NEPEAN	C
LT9105804	1992/07/22	APL (GENERAL)			ZENA-KINDER HOLDINGS LIMITED	C
LT811365	1992/12/24	CONSTRUCTION LIEN		*** DELETED AGAINST THIS PROPERTY *** SET CONSTRUCTION LTD.		
LT815265	1993/01/29	TRANSFER	\$1	THE CORPORATION OF THE CITY OF NEPEAN	ZENA-KINDER HOLDINGS LIMITED	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

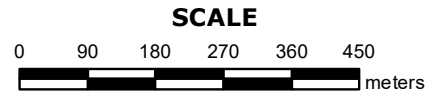
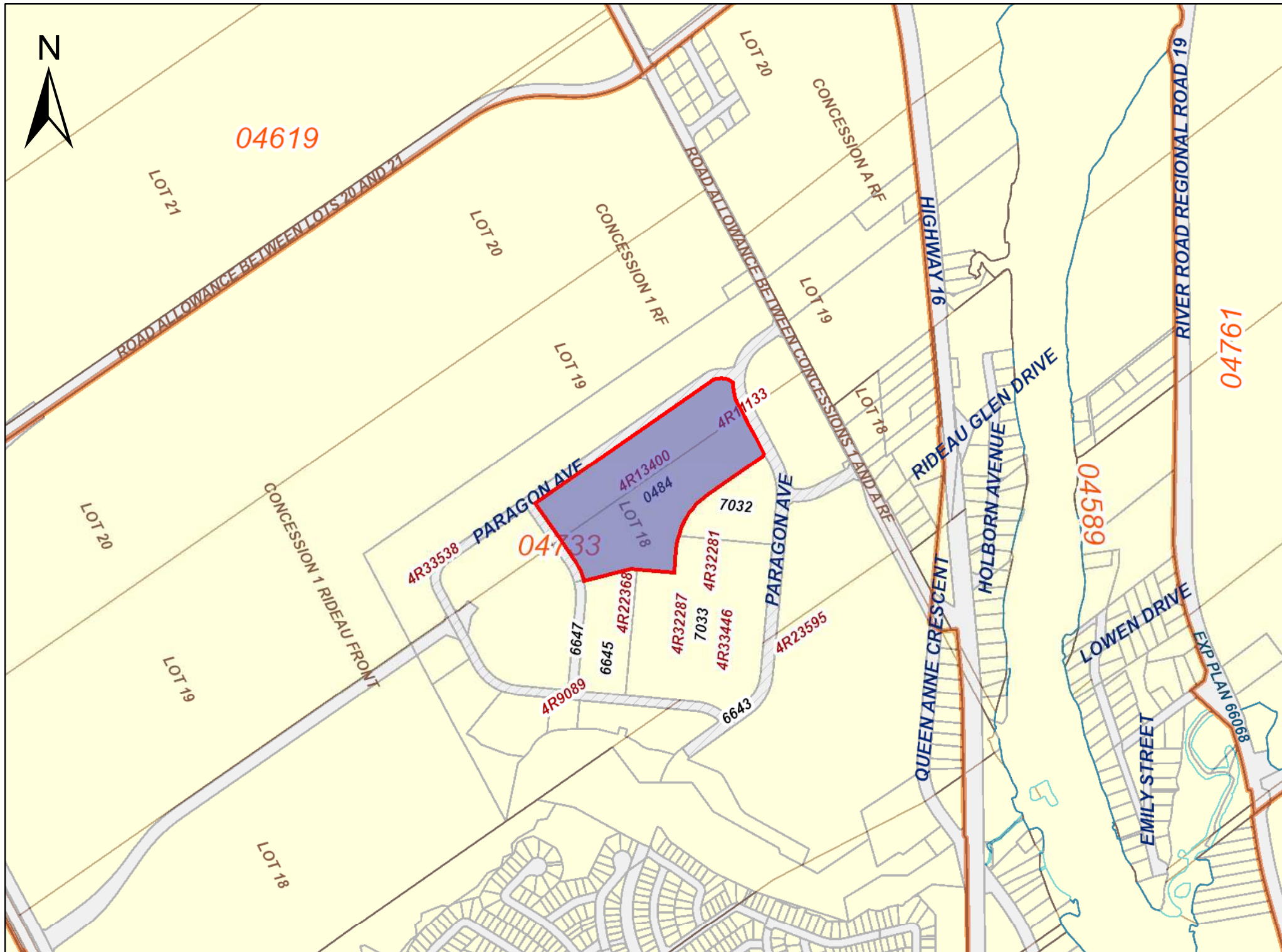
LAND
REGISTRY
OFFICE #4

04733-0484 (LT)

PREPARED FOR bertucci
ON 2021/04/28 AT 20:01:41

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
LT823872	1993/04/07	APL (GENERAL)		ZENA-KINDER HOLDINGS LIMITED		C
4R9089	1993/05/04	PLAN REFERENCE				C
LT838409	1993/07/05	DIS CONSTRUCT LIEN		*** COMPLETELY DELETED *** SET CONSTRUCTION LTD	THE CORPORATION OF THE CITY OF NEPEAN	
4R13400	1997/11/27	PLAN REFERENCE				C
LT1098948	1998/01/08	NOTICE <i>REMARKS: EXPIRES IN TWO YEARS UNLESS EXTENDED</i>	\$13,641	ZENA-KINDER HOLDINGS LIMITED	JDS FITEL INC.	C
LT1098949	1998/01/08	NOTICE		ZENA-KINDER HOLDINGS LIMITED	JDS FITEL INC.	C
LT1098951	1998/01/08	APL ANNEX REST COV <i>REMARKS: FOR 50 YEARS FROM 98/01/08</i>		ZENA-KINDER HOLDINGS LIMITED		C
LT1098953	1998/01/08	APL ANNEX REST COV		ZENA-KINDER HOLDINGS LIMITED		C
OC1135995	2010/07/16	NOTICE <i>REMARKS: AIRPORT ZONING REGULATION</i>		HER MAJESTY THE QUEEN IN RIGHT OF CANADA		C
OC1550482	2014/01/06	LR'S ORDER <i>REMARKS: DELETING N146175 AND N146176 AND ADDING NS146175 AND NS146176</i>		LAND REGISTRAR, OTTAWA-CARLETON LAND REGISTRY OFFICE		C



PROPERTY INDEX MAP
OTTAWA-CARLETON(No. 04)

LEGEND

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	0449
BLOCK NUMBER	08050
GEOGRAPHIC FABRIC	
EASEMENT	

THIS IS NOT A PLAN OF SURVEY

NOTES

REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED



APPENDIX D
ERIS DATABASE REPORT



DATABASE REPORT

Project Property: *TR0936B - Ottawa, ON
99 Bill Leathem Drive and Portions of 2 and
20 Leikin Drive
Nepean ON K2J 0P8*

Project No:

Report Type: *RSC Report - Quote*

Order No: *21041400366*

Requested by: *Geosyntec Consultants*

Date Completed: *April 20, 2021*

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Executive Summary

Property Information:

Project Property: TR0936B - Ottawa, ON
99 Bill Leathem Drive and Portions of 2 and 20 Leikin Drive Nepean ON K2J 0P8

Project No:

Order Information:

Order No: 21041400366
Date Requested: April 14, 2021
Requested by: Geosyntec Consultants
Report Type: RSC Report - Quote

Historical/Products:

Land Title Search Historical Land Title Search
Topographic Map RSC Maps

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Boundary to 0.30km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	0	0
BORE	<i>Borehole</i>	Y	0	5	5
CA	<i>Certificates of Approval</i>	Y	0	5	5
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	1	1
CHEM	<i>Chemical Manufacturers and Distributors</i>	Y	0	0	0
CHM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	1	1
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
DTNK	<i>Delisted Fuel Tanks</i>	Y	0	0	0
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	2	2
EBR	<i>Environmental Registry</i>	Y	0	6	6
ECA	<i>Environmental Compliance Approval</i>	Y	0	8	8
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	3	9	12
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EPAR	<i>Environmental Penalty Annual Report</i>	Y	0	0	0
EXP	<i>List of Expired Fuels Safety Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FRST	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	4	4
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	43	43
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	0	0
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBP	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	1	1
OGWE	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	0	0
PINC	<i>Pipeline Incidents</i>	Y	0	0	0
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	0	0
PTTW	<i>Permit to Take Water</i>	Y	0	0	0
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	0	0
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	0	0
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	4	4
SPL	<i>Ontario Spills</i>	Y	0	5	5
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	0	14	14
Total:			3	108	111

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
<u>1</u>	EHS		n/a Ottawa ON	E/0.0	-1.00	<u>31</u>
<u>2</u>	EHS		73 Leiken Drive Nepean ON K2G	WSW/0.0	1.00	<u>31</u>
<u>3</u>	EHS		20 Leikin Drive Nepean ON K2C 3H1	ENE/0.0	-3.00	<u>31</u>

Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
4	WWIS		lot 19 con 1 ON Well ID: 1504705	NE/11.5	-4.00	31
5	BORE		ON	NE/11.7	-4.00	34
6	CNG	Enbridge - South Merivale Op Centre	Private Nepean ON K2J 0R3	SSW/44.7	3.03	35
7	BORE		ON	ENE/50.7	-5.00	36
8	WWIS		lot 19 con A ON Well ID: 1510965	ENE/50.8	-5.00	37
9	EHS		2 Bill Leatham Drive Nepean ON K2J 0P7	SW/70.2	1.00	41
9	EHS		2 Bill Leatham Drive Nepean ON K2J 0P7	SW/70.2	1.00	41
9	EHS		2 Bill Leatham Drive Nepean ON K2J 0P7	SW/70.2	1.00	41
9	EHS		2 Bill Leatham Drive Nepean ON K2J 0P7	SW/70.2	1.00	41
10	WWIS		con 2 OTTAWA ON Well ID: 1534521	WSW/71.3	1.00	41
11	BORE		ON	SSE/72.5	0.97	42
11	SCT	JDS Uniphase Corporation	61 Bill Leatham Dr Ottawa ON K2J 0P7	SSE/72.5	0.97	44

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
11	GEN	JDS Uniphase Inc.	61 Bill Leathem Drive Nepean ON K2J 0P7	SSE/72.5	0.97	44
11	SCT	JDS Uniphase Corporation	61 Bill Leathem Dr Nepean ON K2J 0P7	SSE/72.5	0.97	45
11	GEN	JDS Uniphase Inc.	61 Bill Leathem Drive Nepean ON K2J 0P7	SSE/72.5	0.97	45
11	EASR	Lumentum Ottawa Inc.	61 BILL LEATHEM DRIVE OTTAWA ON K2J 0P7	SSE/72.5	0.97	46
11	GEN	JDS Uniphase Inc.	61 Bill Leathem Drive Nepean ON K2J 0P7	SSE/72.5	0.97	46
11	GEN	JDS Uniphase Inc.	61 Bill Leathem Drive Nepean ON K2J 0P7	SSE/72.5	0.97	47
11	EASR	Lumentum Ottawa Inc.	61 BILL LEATHEM DRIVE OTTAWA ON K2J 0P7	SSE/72.5	0.97	47
11	GEN	JDS Uniphase Inc.	61 Bill Leathem Drive Nepean ON K2J 0P7	SSE/72.5	0.97	48
11	ECA	JDS Uniphase Inc.	61 Bill Leathem Drive OTTAWA ON K2J 0P7	SSE/72.5	0.97	48
11	GEN	JDS Uniphase Inc.	61 Bill Leathem Drive Nepean ON	SSE/72.5	0.97	49
11	EHS		61 Bill Leathem Dr Ottawa ON K2J0P7	SSE/72.5	0.97	49
11	ECA	JDS Uniphase Inc.	61 Bill Leathem Dr Ottawa ON K2J 0P7	SSE/72.5	0.97	50
11	GEN	Lumentum Ottawa Inc.	61 Bill Leathem Drive Nepean ON K2J 0P7	SSE/72.5	0.97	50

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
11	GEN	Lumentum Ottawa Inc.	61 Bill Leathem Drive Nepean ON K2J 0P7	SSE/72.5	0.97	51
11	GEN	JDS Uniphase Inc.	61 Bill Leathem Drive Nepean ON K2J 0P7	SSE/72.5	0.97	52
11	GEN	Lumentum Ottawa Inc.	61 Bill Leathem Drive Nepean ON K2J 0P7	SSE/72.5	0.97	52
11	GEN	Lumentum Ottawa Inc.	61 Bill Leathem Drive Nepean ON K2J 0P7	SSE/72.5	0.97	53
11	GEN	Lumentum Ottawa Inc.	61 Bill Leathem Drive Nepean ON K2J 0P7	SSE/72.5	0.97	54
12	WWIS		lot 18 con 1 ON Well ID: 1504702	SSE/72.6	0.97	55
13	GEN	CONSUMERS GAS COMPANY LTD., THE	90 BILL LEATHEM DRIVE NEPEAN ON K2G 6J2	SSW/83.0	2.11	58
13	GEN	CONSUMERS GAS COMPANY	90 BILL LEATHEM DRIVE NEPEAN ON K2G 6J2	SSW/83.0	2.11	58
13	GEN	ENBRIDGE SERVICES INC.	90 BILL LEATHEM DRIVE NEPEAN ON K2G 6J2	SSW/83.0	2.11	58
13	GEN	Enbridge Gas Distribution	90 Bill Leatham Drive Nepean ON	SSW/83.0	2.11	58
13	GEN	Direct Energy Inc.	90 Bill Leathem Drive Nepean ON K2G 6J2	SSW/83.0	2.11	59
13	GEN	Enbridge Gas Distribution	90 Bill Leathem Drive Nepean ON K2J 0R3	SSW/83.0	2.11	59
13	GEN	Enbridge Gas Distribution	90 Bill Leathem Drive Nepean ON K2J 0R3	SSW/83.0	2.11	60

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
13	GEN	Enbridge Gas Distribution	90 Bill Leathem Drive Nepean ON K2J 0R3	SSW/83.0	2.11	60
13	GEN	Enbridge Gas Distribution	90 Bill Leathem Drive Nepean ON K2J 0R3	SSW/83.0	2.11	61
13	GEN	Enbridge Gas Distribution	90 Bill Leathem Drive Nepean ON	SSW/83.0	2.11	61
13	EHS		90 Bill Leathem Drive Ottawa ON	SSW/83.0	2.11	62
13	GEN	Enbridge Gas Distribution	90 Bill Leathem Drive Nepean ON K2G 6J2	SSW/83.0	2.11	62
13	GEN	Enbridge Gas Distribution	90 Bill Leathem Drive Nepean ON K2G 6J2	SSW/83.0	2.11	63
13	GEN	Enbridge Gas Inc.	90 Bill Leathem Drive Nepean ON K2G 6J2	SSW/83.0	2.11	64
13	GEN	Enbridge Gas Distribution	90 Bill Leathem Drive Nepean ON K2G 6J2	SSW/83.0	2.11	64
13	GEN	Enbridge Gas Inc.	90 Bill Leathem Drive Nepean ON K2G 6J2	SSW/83.0	2.11	65
13	SPL		90 Bill Leathem Drive, Nepean Ottawa ON	SSW/83.0	2.11	66
13	GEN	Enbridge Gas Inc.	90 Bill Leathem Drive Nepean ON K2J 0R3	SSW/83.0	2.11	66
14	EHS		Leiken Drive Ottawa ON	SE/104.8	-1.15	67
15	ECA	City of Ottawa	Part of Lots 18 & 19, Concession 1, Rideau Front Ottawa ON K2G 6J8	SW/137.7	-0.20	67

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
16	WWIS		lot 18 con 1 ON Well ID: 1504703	E/138.7	-6.00	67
17	BORE		ON	E/138.7	-6.00	70
18	WWIS		PRINCE OF WALES Ottawa ON Well ID: 7181888	ENE/140.4	-6.00	71
19	EHS		Site 2 Bill Leatham Drive Ottawa ON K2G	SSE/154.4	1.53	73
20	WWIS		2876 PRINCE OF WALES DR. lot 19 con A NEPAEN ON Well ID: 1534771	E/172.5	-5.92	74
21	WWIS		lot 19 con A ON Well ID: 1513688	ENE/174.0	-5.92	75
22	WWIS		lot 18 con A ON Well ID: 1515468	E/188.5	-5.95	78
22	FST	MR GAS LIMITED**	2931 HWY 16 RR 2 RR 2 LCD MERIVALE NEPEAN K2C 3H1 ON CA ON	E/188.5	-5.95	81
22	FST	MR GAS LIMITED**	2931 HWY 16 RR 2 RR 2 LCD MERIVALE NEPEAN K2C 3H1 ON CA ON	E/188.5	-5.95	82
22	FST	MR GAS LIMITED**	2931 HWY 16 RR 2 RR 2 LCD MERIVALE NEPEAN K2C 3H1 ON CA ON	E/188.5	-5.95	82
23	EBR	JDS Uniphase Inc.	15 Bill Leatham Drive Ottawa CITY OF OTTAWA ON	SSE/250.0	1.08	83
23	EBR	JDS Uniphase Inc.	15 Bill Leatham Drive Ottawa K2J 0P7 CITY OF OTTAWA ON	SSE/250.0	1.08	83

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
23	ECA	JDS Uniphase Inc.	15 Bill Leatham Dr Ottawa ON K2G 5W8	SSE/250.0	1.08	84
24	WWIS		lot 18 con A ON Well ID: 1504087	E/279.5	-6.31	84
25	CFOT	PUBLIC WORKS GOVERNMENT SERVICES CANADA	73 LEIKIN DR SUITE M1-0-911 OTTAWA K1A 0R2 ON CA ON	ESE/280.1	-4.00	88
25	FST	PUBLIC WORKS GOVERNMENT SERVICES CANADA	73 LEIKIN DR SUITE M1-0-911 OTTAWA K1A 0R2 ON CA ON	ESE/280.1	-4.00	88
26	WWIS		lot 19 con A ON Well ID: 1504097	ENE/285.4	-8.06	88
27	BORE		ON	ENE/285.4	-8.06	91
28	SPL	CONTRACTOR	3000 MERIVALE RD AT HWY 16- CONSTRUCTION SITE MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON	ESE/292.2	-5.00	92
28	SPL	JDS FITEL (UNIPHASE) INC.	3000 MERIVALE RD, PARKING LOT 3000 MERIVALE RD NEPEAN ON NEPEAN CITY ON	ESE/292.2	-5.00	92
28	CA	JDS UNIPHASE INC.	3000 MERIVALE ROAD NEPEAN CITY ON	ESE/292.2	-5.00	93
28	CA		3000 Merivale Road Nepean ON	ESE/292.2	-5.00	93
28	CA		3000 Merivale Road Nepean ON	ESE/292.2	-5.00	94
28	CA		3000 Merivale Road Nepean ON	ESE/292.2	-5.00	94
28	EBR	JDS Uniphase Corporation	3000 Merivale Road NEPEAN ON	ESE/292.2	-5.00	94

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
28	EBR	JDS Uniphase Inc.	3000 Merivale Road NEPEAN ON	ESE/292.2	-5.00	95
28	EBR	JDS Uniphase Inc.	3000 Merivale Road Nepean Ontario K2G 6N7 Nepean ON	ESE/292.2	-5.00	95
28	EBR	JDS Uniphase Inc.	3000 Merivale Road Nepean Ontario K2G 6N7 Nepean ON	ESE/292.2	-5.00	96
28	SCT	JDS Uniphase Ltd.	3000 Merivale Rd Nepean ON	ESE/292.2	-5.00	96
28	GEN	JDS FITEL INC.	3000 MERIVALE ROAD NEPEAN ON K2C 3H1	ESE/292.2	-5.00	96
28	GEN	JDS UNIPHASE CORPORATION	3000 MERIVALE ROAD NEPEAN ON K2C 3H1	ESE/292.2	-5.00	97
28	GEN	JDS UNIPHASE Inc.	3000 MERIVALE ROAD NEPEAN ON K2C 3H1	ESE/292.2	-5.00	97
28	SCT	JDS Uniphase Corporation	3000 Merivale Rd Nepean ON K2G 6N7	ESE/292.2	-5.00	98
28	GEN	Minto Commercial Inc.	3000 Merivale Road Ottawa ON K2G6N7	ESE/292.2	-5.00	99
28	EHS		3000 Merivale Road Ottawa ON	ESE/292.2	-5.00	99
28	SPL	JDS Uniphase Inc.	3000 Merivale Road Nepean ON	ESE/292.2	-5.00	99
28	SPL	JDS Uniphase Corporation	3000 MARIVALE RD., NEPEAN<UNOFFICIAL> Ottawa ON	ESE/292.2	-5.00	100

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
28	CA	Public Work Government Service Canada	3000 Merivale Rd Ottawa ON	ESE/292.2	-5.00	100
28	GEN	Minto Commercial Inc.	3000 Merivale Road Ottawa ON	ESE/292.2	-5.00	100
28	GEN	Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON	ESE/292.2	-5.00	101
28	GEN	Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON	ESE/292.2	-5.00	101
28	GEN	Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON K2G6N7	ESE/292.2	-5.00	102
28	NPRI	JDS UNIPHASE INC.	3000 Merivale Road Ottawa ON K2G6N7	ESE/292.2	-5.00	102
28	GEN	Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON	ESE/292.2	-5.00	105
28	ECA	Public Work Government Service Canada	3000 Merivale Rd Ottawa ON K1A 0R2	ESE/292.2	-5.00	105
28	ECA	JDS Uniphase Inc.	3000 Merivale Road Nepean ON K2G 5W8	ESE/292.2	-5.00	105
28	ECA	JDS Uniphase Corporation	3000 Merivale Road Nepean ON K2G 5W8	ESE/292.2	-5.00	106
28	ECA	JDS Uniphase Inc.	3000 Merivale Road Nepean ON K2G 5W8	ESE/292.2	-5.00	106
28	GEN	Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON K2G6N7	ESE/292.2	-5.00	106
28	GEN	Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON K2G6N7	ESE/292.2	-5.00	107

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>28</u>	GEN	Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON K2G6N7	ESE/292.2	-5.00	<u>107</u>
<u>28</u>	GEN	Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON K2G6N7	ESE/292.2	-5.00	<u>108</u>
<u>28</u>	GEN	Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON K2G6N7	ESE/292.2	-5.00	<u>108</u>
<u>28</u>	GEN	Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON K2G6N7	ESE/292.2	-5.00	<u>109</u>
<u>29</u>	WWIS		lot 19 con A ON Well ID: 1533419	ENE/293.6	-5.97	<u>109</u>
<u>30</u>	WWIS		lot 19 con A ON Well ID: 1527674	ENE/296.7	-5.97	<u>113</u>
<u>30</u>	WWIS		lot 19 con A ON Well ID: 1527675	ENE/296.7	-5.97	<u>114</u>

Executive Summary: Summary By Data Source

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 has found that there are 5 BORE site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	ON	11.7	<u>5</u>
	ON	50.7	<u>7</u>
	ON	72.5	<u>11</u>
	ON	138.7	<u>17</u>
	ON	285.4	<u>27</u>

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 5 CA site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	3000 Merivale Road Nepean ON	292.2	<u>28</u>
	3000 Merivale Road Nepean ON	292.2	<u>28</u>
JDS UNIPHASE INC.	3000 MERIVALE ROAD NEPEAN CITY ON	292.2	<u>28</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Public Work Government Service Canada	3000 Merivale Rd Ottawa ON	292.2	28
	3000 Merivale Road Nepean ON	292.2	28

CFOT - Commercial Fuel Oil Tanks

A search of the CFOT database, dated Jul 31, 2020 has found that there are 1 CFOT site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
PUBLIC WORKS GOVERNMENT SERVICES CANADA	73 LEIKIN DR SUITE M1-0-911 OTTAWA K1A 0R2 ON CA ON	280.1	25

CNG - Compressed Natural Gas Stations

A search of the CNG database, dated Dec 2012 -Dec 2020 has found that there are 1 CNG site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Enbridge - South Merivale Op Centre	Private Nepean ON K2J 0R3	44.7	6

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011-Feb 28, 2021 has found that there are 2 EASR site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Lumentum Ottawa Inc.	61 BILL LEATHEM DRIVE OTTAWA ON K2J 0P7	72.5	11
Lumentum Ottawa Inc.	61 BILL LEATHEM DRIVE OTTAWA ON K2J 0P7	72.5	11

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
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EBR - Environmental Registry

A search of the EBR database, dated 1994-Feb 28, 2021 has found that there are 6 EBR site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
JDS Uniphase Inc.	15 Bill Leathem Drive Ottawa CITY OF OTTAWA ON	250.0	<u>23</u>
JDS Uniphase Inc.	15 Bill Leathem Drive Ottawa K2J 0P7 CITY OF OTTAWA ON	250.0	<u>23</u>
JDS Uniphase Inc.	3000 Merivale Road Nepean Ontario K2G 6N7 Nepean ON	292.2	<u>28</u>
JDS Uniphase Inc.	3000 Merivale Road Nepean Ontario K2G 6N7 Nepean ON	292.2	<u>28</u>
JDS Uniphase Inc.	3000 Merivale Road NEPEAN ON	292.2	<u>28</u>
JDS Uniphase Corporation	3000 Merivale Road NEPEAN ON	292.2	<u>28</u>

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Feb 28, 2021 has found that there are 8 ECA site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
JDS Uniphase Inc.	61 Bill Leathem Dr Ottawa ON K2J 0P7	72.5	<u>11</u>
JDS Uniphase Inc.	61 Bill Leathem Drive OTTAWA ON K2J 0P7	72.5	<u>11</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
City of Ottawa	Part of Lots 18 & 19, Concession 1, Rideau Front Ottawa ON K2G 6J8	137.7	<u>15</u>
JDS Uniphase Inc.	15 Bill Leathem Dr Ottawa ON K2G 5W8	250.0	<u>23</u>
JDS Uniphase Inc.	3000 Merivale Road Nepean ON K2G 5W8	292.2	<u>28</u>
JDS Uniphase Corporation	3000 Merivale Road Nepean ON K2G 5W8	292.2	<u>28</u>
JDS Uniphase Inc.	3000 Merivale Road Nepean ON K2G 5W8	292.2	<u>28</u>
Public Work Government Service Canada	3000 Merivale Rd Ottawa ON K1A 0R2	292.2	<u>28</u>

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Jan 31, 2021 has found that there are 12 EHS site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	n/a Ottawa ON	0.0	<u>1</u>
	73 Leiken Drive Nepean ON K2G	0.0	<u>2</u>
	20 Leikin Drive Nepean ON K2C 3H1	0.0	<u>3</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	2 Bill Leathem Drive Nepean ON K2J 0P7	70.2	<u>9</u>
	2 Bill Leathem Drive Nepean ON K2J 0P7	70.2	<u>9</u>
	2 Bill Leathem Drive Nepean ON K2J 0P7	70.2	<u>9</u>
	2 Bill Leathem Drive Nepean ON K2J 0P7	70.2	<u>9</u>
	61 Bill Leathem Dr Ottawa ON K2J0P7	72.5	<u>11</u>
	90 Bill Leathem Drive Ottawa ON	83.0	<u>13</u>
	Leiken Drive Ottawa ON	104.8	<u>14</u>
	Site 2 Bill Leathem Drive Ottawa ON K2G	154.4	<u>19</u>
	3000 Merivale Road Ottawa ON	292.2	<u>28</u>

FST - Fuel Storage Tank

A search of the FST database, dated Jul 31, 2020 has found that there are 4 FST site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
MR GAS LIMITED**	2931 HWY 16 RR 2 RR 2 LCD MERIVALE NEPEAN K2C 3H1 ON CA ON	188.5	<u>22</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
MR GAS LIMITED**	2931 HWY 16 RR 2 RR 2 LCD MERIVALE NEPEAN K2C 3H1 ON CA ON	188.5	<u>22</u>
MR GAS LIMITED**	2931 HWY 16 RR 2 RR 2 LCD MERIVALE NEPEAN K2C 3H1 ON CA ON	188.5	<u>22</u>
PUBLIC WORKS GOVERNMENT SERVICES CANADA	73 LEIKIN DR SUITE M1-0-911 OTTAWA K1A 0R2 ON CA ON	280.1	<u>25</u>

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jan 31, 2021 has found that there are 43 GEN site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
JDS Uniphase Inc.	61 Bill Leatham Drive Nepean ON K2J 0P7	72.5	<u>11</u>
JDS Uniphase Inc.	61 Bill Leatham Drive Nepean ON K2J 0P7	72.5	<u>11</u>
JDS Uniphase Inc.	61 Bill Leatham Drive Nepean ON K2J 0P7	72.5	<u>11</u>
JDS Uniphase Inc.	61 Bill Leatham Drive Nepean ON K2J 0P7	72.5	<u>11</u>
JDS Uniphase Inc.	61 Bill Leatham Drive Nepean ON K2J 0P7	72.5	<u>11</u>
JDS Uniphase Inc.	61 Bill Leatham Drive Nepean ON	72.5	<u>11</u>

Site	Address	Distance (m)	Map Key
Lumentum Ottawa Inc.	61 Bill Leathem Drive Nepean ON K2J 0P7	72.5	<u>11</u>
Lumentum Ottawa Inc.	61 Bill Leathem Drive Nepean ON K2J 0P7	72.5	<u>11</u>
JDS Uniphase Inc.	61 Bill Leathem Drive Nepean ON K2J 0P7	72.5	<u>11</u>
Lumentum Ottawa Inc.	61 Bill Leathem Drive Nepean ON K2J 0P7	72.5	<u>11</u>
Lumentum Ottawa Inc.	61 Bill Leathem Drive Nepean ON K2J 0P7	72.5	<u>11</u>
Lumentum Ottawa Inc.	61 Bill Leathem Drive Nepean ON K2J 0P7	72.5	<u>11</u>
Enbridge Gas Distribution	90 Bill Leathem Drive Nepean ON K2G 6J2	83.0	<u>13</u>
Enbridge Gas Inc.	90 Bill Leathem Drive Nepean ON K2G 6J2	83.0	<u>13</u>
Enbridge Gas Distribution	90 Bill Leathem Drive Nepean ON K2G 6J2	83.0	<u>13</u>
Enbridge Gas Inc.	90 Bill Leathem Drive Nepean ON K2G 6J2	83.0	<u>13</u>
Enbridge Gas Inc.	90 Bill Leathem Drive Nepean ON K2J 0R3	83.0	<u>13</u>
CONSUMERS GAS COMPANY	90 BILL LEATHEM DRIVE NEPEAN ON K2G 6J2	83.0	<u>13</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
ENBRIDGE SERVICES INC.	90 BILL LEATHEM DRIVE NEPEAN ON K2G 6J2	83.0	<u>13</u>
Enbridge Gas Distribution	90 Bill Leatham Drive Nepean ON	83.0	<u>13</u>
Direct Energy Inc.	90 Bill Leatham Drive Nepean ON K2G 6J2	83.0	<u>13</u>
Enbridge Gas Distribution	90 Bill Leatham Drive Nepean ON K2J 0R3	83.0	<u>13</u>
Enbridge Gas Distribution	90 Bill Leatham Drive Nepean ON K2J 0R3	83.0	<u>13</u>
Enbridge Gas Distribution	90 Bill Leatham Drive Nepean ON K2J 0R3	83.0	<u>13</u>
Enbridge Gas Distribution	90 Bill Leatham Drive Nepean ON K2J 0R3	83.0	<u>13</u>
Enbridge Gas Distribution	90 Bill Leatham Drive Nepean ON	83.0	<u>13</u>
CONSUMERS GAS COMPANY LTD., THE	90 BILL LEATHEM DRIVE NEPEAN ON K2G 6J2	83.0	<u>13</u>
Enbridge Gas Distribution	90 Bill Leatham Drive Nepean ON K2G 6J2	83.0	<u>13</u>
Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON K2G6N7	292.2	<u>28</u>

Site	Address	Distance (m)	Map Key
JDS FITEL INC.	3000 MERIVALE ROAD NEPEAN ON K2C 3H1	292.2	28
JDS UNIPHASE CORPORATION	3000 MERIVALE ROAD NEPEAN ON K2C 3H1	292.2	28
JDS UNIPHASE Inc.	3000 MERIVALE ROAD NEPEAN ON K2C 3H1	292.2	28
Minto Commercial Inc.	3000 Merivale Road Ottawa ON K2G6N7	292.2	28
Minto Commercial Inc.	3000 Merivale Road Ottawa ON	292.2	28
Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON	292.2	28
Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON	292.2	28
Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON K2G6N7	292.2	28
Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON	292.2	28
Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON K2G6N7	292.2	28
Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON K2G6N7	292.2	28
Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON K2G6N7	292.2	28

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON K2G6N7	292.2	28
Minto Commercial Inc.	3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON K2G6N7	292.2	28

NPRI - National Pollutant Release Inventory

A search of the NPRI database, dated 1993-May 2017 has found that there are 1 NPRI site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
JDS UNIPHASE INC.	3000 Merivale Road Ottawa ON K2G6N7	292.2	28

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 4 SCT site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
JDS Uniphase Corporation	61 Bill Leatham Dr Ottawa ON K2J 0P7	72.5	11
JDS Uniphase Corporation	61 Bill Leatham Dr Nepean ON K2J 0P7	72.5	11
JDS Uniphase Corporation	3000 Merivale Rd Nepean ON K2G 6N7	292.2	28
JDS Uniphase Ltd.	3000 Merivale Rd Nepean ON	292.2	28

SPL - Ontario Spills

A search of the SPL database, dated 1988-Mar 2020; Jul 2020 - Aug 2020 has found that there are 5 SPL site(s) within approximately 0.30 kilometers of the project property.

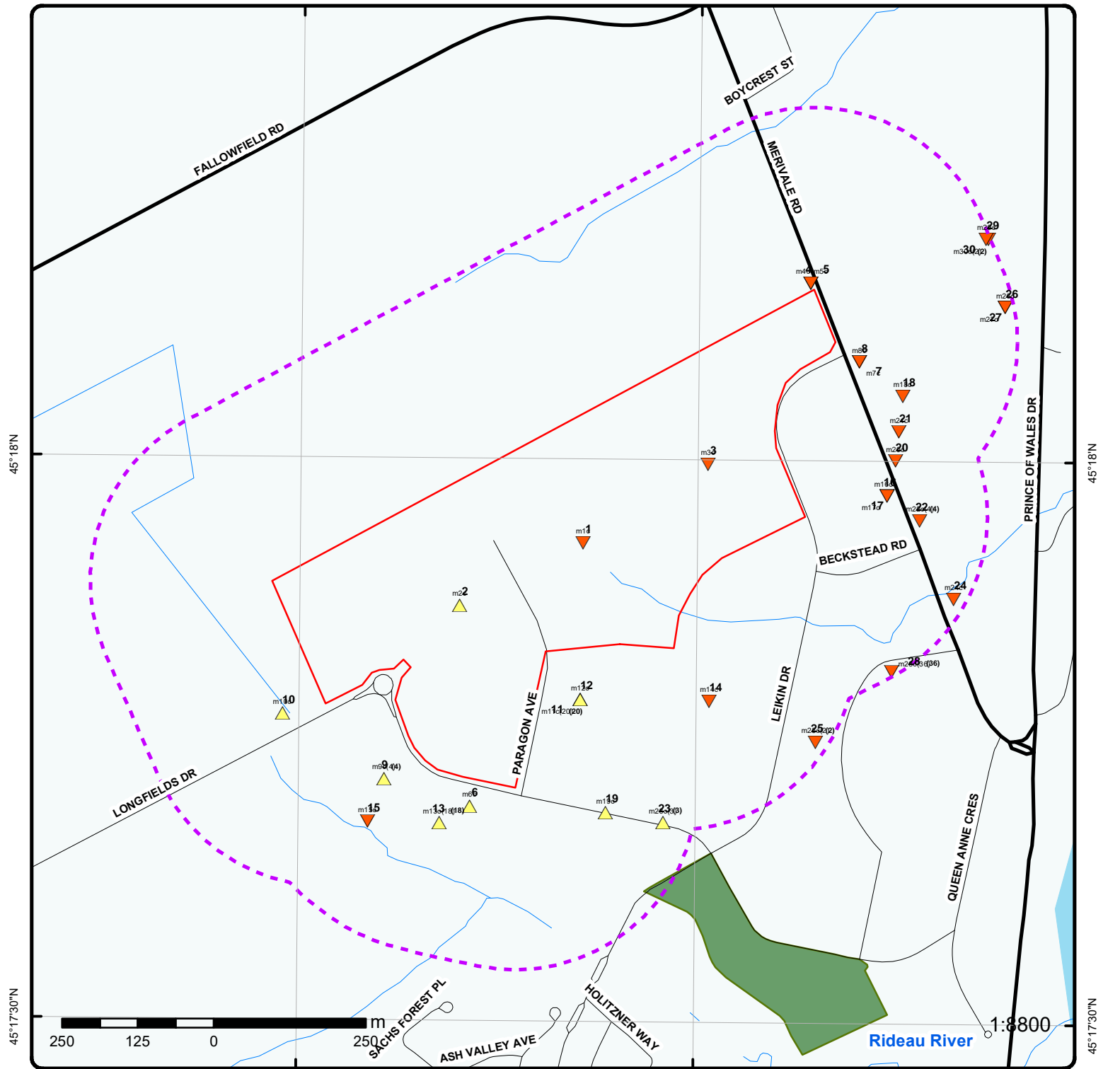
<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	90 Bill Leatham Drive, Nepean Ottawa ON	83.0	<u>13</u>
JDS Uniphase Inc.	3000 Merivale Road Nepean ON	292.2	<u>28</u>
JDS Uniphase Corporation	3000 MARIVALE RD., NEPEAN<UNOFFICIAL> Ottawa ON	292.2	<u>28</u>
CONTRACTOR	3000 MERIVALE RD AT HWY 16- CONSTRUCTION SITE MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON	292.2	<u>28</u>
JDS FITEL (UNIPHASE) INC.	3000 MERIVALE RD, PARKING LOT 3000 MERIVALE RD NEPEAN ON NEPEAN CITY ON	292.2	<u>28</u>

WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2020 has found that there are 14 WWIS site(s) within approximately 0.30 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	lot 19 con 1 ON <i>Well ID:</i> 1504705	11.5	<u>4</u>
	lot 19 con A ON <i>Well ID:</i> 1510965	50.8	<u>8</u>
	con 2 OTTAWA ON <i>Well ID:</i> 1534521	71.3	<u>10</u>
	lot 18 con 1 ON	72.6	<u>12</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	<i>Well ID:</i> 1504702		
	lot 18 con 1 ON	138.7	<u>16</u>
	<i>Well ID:</i> 1504703		
	PRINCE OF WALES Ottawa ON	140.4	<u>18</u>
	<i>Well ID:</i> 7181888		
	2876 PRINCE OF WALES DR. lot 19 con A NEPAEN ON	172.5	<u>20</u>
	<i>Well ID:</i> 1534771		
	lot 19 con A ON	174.0	<u>21</u>
	<i>Well ID:</i> 1513688		
	lot 18 con A ON	188.5	<u>22</u>
	<i>Well ID:</i> 1515468		
	lot 18 con A ON	279.5	<u>24</u>
	<i>Well ID:</i> 1504087		
	lot 19 con A ON	285.4	<u>26</u>
	<i>Well ID:</i> 1504097		
	lot 19 con A ON	293.6	<u>29</u>
	<i>Well ID:</i> 1533419		
	lot 19 con A ON	296.7	<u>30</u>
	<i>Well ID:</i> 1527675		
	lot 19 con A ON	296.7	<u>30</u>
	<i>Well ID:</i> 1527674		



Map: 0.3 Kilometer Radius

Order Number: 21041400366

Address: 99 Bill Leatham Drive and Portions of 2 and 20 Leikin Drive, Nepean, ON



Project Property	Expressway	Industrial and Resource - Regions	National Park
Buffer Outline	Principal Highway	Main Line	Provincial or Territorial Park
Eris Sites with Higher Elevation	Secondary Highway	Sidetrack	Other Park
Eris Sites with Same Elevation	Major Road	Transit Line	Golf Course or Driving Range
Eris Sites with Lower Elevation	Local road	Abandoned Line	Park or Sports Field
Eris Sites with Unknown Elevation	Trail	Ferry Route/Ice Road	Other Recreation Area
	Proposed Road		



Aerial Year: 2008

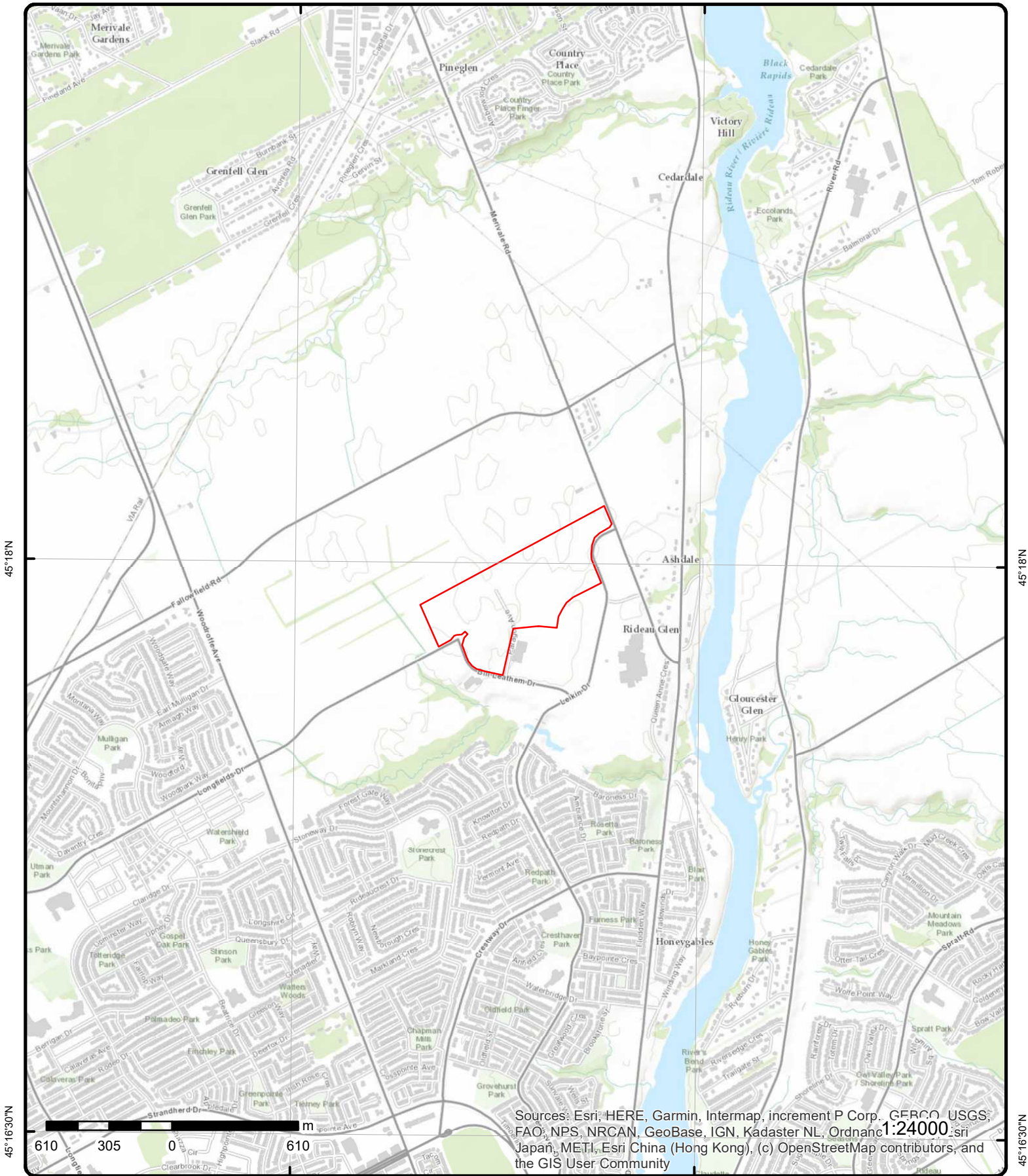
Order Number: 21041400366

Address: 99 Bill Leathem Drive and Portions of 2 and 20 Leikin Drive, Nepean,



Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Order Number: 21041400366

Address: 99 Bill Leathem Drive and Portions of 2 and 20 Leikin Drive, ON



Source: ESRI World Topographic Map

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>1</u>	1 of 1	E/0.0	87.9 / -1.00	n/a Ottawa ON	EHS
Order No:		20090401014		Nearest Intersection: Merivale Road and Leikin Drive	
Status:		C		Municipality:	
Report Type:		Custom Report		Client Prov/State: ON	
Report Date:		4/9/2009		Search Radius (km): 0.25	
Date Received:		4/1/2009		X: -75.710725	
Previous Site Name:				Y: 45.298759	
Lot/Building Size:		lot: 37.7 hectares			
Additional Info Ordered:					
<u>2</u>	1 of 1	WSW/0.0	89.9 / 1.00	73 Leiken Drive Nepean ON K2G	EHS
Order No:		21021200162		Nearest Intersection:	
Status:		C		Municipality:	
Report Type:		Custom Report		Client Prov/State: ON	
Report Date:		18-FEB-21		Search Radius (km): .25	
Date Received:		12-FEB-21		X: -75.71330769	
Previous Site Name:				Y: 45.29781248	
Lot/Building Size:					
Additional Info Ordered:					
<u>3</u>	1 of 1	ENE/0.0	85.9 / -3.00	20 Leikin Drive Nepean ON K2C 3H1	EHS
Order No:		21020500082		Nearest Intersection:	
Status:		C		Municipality:	
Report Type:		Custom Report		Client Prov/State: ON	
Report Date:		10-FEB-21		Search Radius (km): .25	
Date Received:		05-FEB-21		X: -75.70811844	
Previous Site Name:				Y: 45.29992997	
Lot/Building Size:					
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos					
<u>4</u>	1 of 1	NE/11.5	84.9 / -4.00	lot 19 con 1 ON	WWIS
Well ID:		1504705		Data Entry Status:	
Construction Date:				Data Src: 1	
Primary Water Use:		Domestic		Date Received: 11/13/1956	
Sec. Water Use:		0		Selected Flag: Yes	
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor: 3113	
Casing Material:				Form Version: 1	
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County: OTTAWA	
Elevation (m):				Municipality: NEPEAN TOWNSHIP	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	019
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	RF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1504705.pdf			

Bore Hole Information

Bore Hole ID:	10026748	Elevation:	90.60749
DP2BR:	57	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	444650.7
Code OB Desc:	Bedrock	North83:	5016812
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	10/10/1956	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

**Overburden and Bedrock
Materials Interval**

Formation ID:	931000220
Layer:	2
Color:	
General Color:	
Mat1:	09
Most Common Material:	MEDIUM SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	
Mat3 Desc:	
Formation Top Depth:	48
Formation End Depth:	57
Formation End Depth UOM:	ft

**Overburden and Bedrock
Materials Interval**

Formation ID:	931000219
Layer:	1
Color:	7
General Color:	RED
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	48
Formation End Depth UOM:	ft

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
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Overburden and Bedrock Materials Interval

Formation ID: 931000221
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 57
Formation End Depth: 83
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961504705
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10575318
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930046226
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 52
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930046227
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 83
Casing Diameter: 4
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991504705
Pump Set At:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Static Level:		19			
Final Level After Pumping:		29			
Recommended Pump Depth:					
Pumping Rate:		3			
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			

Water Details

Water ID: 933458012
 Layer: 1
 Kind Code: 1
 Kind: FRESH
 Water Found Depth: 83
 Water Found Depth UOM: ft

5 1 of 1 NE/11.7 84.9 / -4.00 ON BORE

Borehole ID:	612160	Inclin FLG:	No
OGF ID:	215513469	SP Status:	Initial Entry
Status:		Surv Elev:	No
Type:	Borehole	Piezometer:	No
Use:		Primary Name:	
Completion Date:	OCT-1956	Municipality:	
Static Water Level:		Lot:	
Primary Water Use:		Township:	
Sec. Water Use:		Latitude DD:	45.302631
Total Depth m:	25.3	Longitude DD:	-75.705993
Depth Ref:	Ground Surface	UTM Zone:	18
Depth Elev:		Easting:	444651
Drill Method:		Northing:	5016812
Orig Ground Elev m:	89.9	Location Accuracy:	
Elev Reliabil Note:		Accuracy:	Not Applicable
DEM Ground Elev m:	90.6		
Concession:			
Location D:			
Survey D:			
Comments:			

Borehole Geology Stratum

Geology Stratum ID:	218390227	Mat Consistency:	
Top Depth:	0	Material Moisture:	
Bottom Depth:	14.6	Material Texture:	
Material Color:	White	Non Geo Mat Type:	
Material 1:	Clay	Geologic Formation:	
Material 2:		Geologic Group:	
Material 3:		Geologic Period:	
Material 4:		Depositional Gen:	
Gsc Material Description:			
Stratum Description:	CLAY. WHITE.		
Geology Stratum ID:	218390228	Mat Consistency:	
Top Depth:	14.6	Material Moisture:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Hydrogen Status				Longitude:	-75.713063
Link:					
CNG Vehicle Class Desc:		Station can accommodate light-, medium-, and heavy-duty vehicles (Classes 1-8).			
Geocode Status:		200-9			
Geocode Status Desc:		Premise (building name, property name, shopping center, etc.) level accuracy.			

<u>7</u>	1 of 1	ENE/50.7	83.9 / -5.00	ON	BORE
Borehole ID:	612156			Inclin FLG:	No
OGF ID:	215513465			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:	OCT-1970			Municipality:	
Static Water Level:				Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.301467
Total Depth m:	26.2			Longitude DD:	-75.704958
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	444731
Drill Method:				Northing:	5016682
Orig Ground Elev m:	89.9			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	90.7				
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID:	218390214	Mat Consistency:	
Top Depth:	0	Material Moisture:	
Bottom Depth:	.6	Material Texture:	
Material Color:	Brown	Non Geo Mat Type:	
Material 1:	Clay	Geologic Formation:	
Material 2:	Sand	Geologic Group:	
Material 3:	Soil	Geologic Period:	
Material 4:		Depositional Gen:	
Gsc Material Description:			
Stratum Description:	CLAY,SAND,SOIL. BROWN.		

Geology Stratum ID:	218390216	Mat Consistency:	
Top Depth:	13.7	Material Moisture:	
Bottom Depth:	21	Material Texture:	
Material Color:	Grey	Non Geo Mat Type:	
Material 1:	Sand	Geologic Formation:	
Material 2:	Gravel	Geologic Group:	
Material 3:	Boulders	Geologic Period:	
Material 4:		Depositional Gen:	
Gsc Material Description:			
Stratum Description:	SAND,GRAVEL,BOULDERSGREY.		

Geology Stratum ID:	218390215	Mat Consistency:	
Top Depth:	.6	Material Moisture:	
Bottom Depth:	13.7	Material Texture:	
Material Color:	Grey	Non Geo Mat Type:	
Material 1:	Clay	Geologic Formation:	
Material 2:		Geologic Group:	
Material 3:		Geologic Period:	
Material 4:		Depositional Gen:	
Gsc Material Description:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Stratum Description: CLAY. GREY.

Geology Stratum ID:	218390217	Mat Consistency:	
Top Depth:	21	Material Moisture:	
Bottom Depth:	26.2	Material Texture:	
Material Color:	Brown	Non Geo Mat Type:	
Material 1:	Bedrock	Geologic Formation:	
Material 2:		Geologic Group:	
Material 3:		Geologic Period:	
Material 4:		Depositional Gen:	

Gsc Material Description:

Stratum Description: BEDROCK. BROWN. 00083SMIC VELOCITY = 15800. BEDROCK. SEISMIC VELOCITY = 17000. 2001350
 **Note: Many records provided by the department have a truncated [Stratum Description] field.

Source

Source Type:	Data Survey	Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada	Source Iden:	1
Source Date:	1956-1972	Scale or Res:	Varies
Confidence:		Horizontal:	NAD27
Observatio:		Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 04664 NTS_Sheet:		
Confiden 1:			

Source List

Source Identifier:	1	Horizontal Datum:	NAD27
Source Type:	Data Survey	Vertical Datum:	Mean Average Sea Level
Source Date:	1956-1972	Projection Name:	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

8	1 of 1	ENE/50.8	83.9 / -5.00	lot 19 con A ON	WWIS
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Well ID:	1510965	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	12/2/1970
Sec. Water Use:	0	Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	1558
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	019
Well Depth:		Concession:	A
Overburden/Bedrock:		Concession Name:	RF
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1510965.pdf

Bore Hole Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bore Hole ID:	10032968			Elevation:	90.710357
DP2BR:	69			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	444730.7
Code OB Desc:	Bedrock			North83:	5016682
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	4
Date Completed:	10/20/1970			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	p4
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Overburden and Bedrock

Materials Interval

Formation ID: 931016309
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 2
Formation End Depth: 45
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931016308
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 09
Mat2 Desc: MEDIUM SAND
Mat3: 02
Mat3 Desc: TOPSOIL
Formation Top Depth: 0
Formation End Depth: 2
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931016311
Layer: 4
Color: 6
General Color: BROWN
Mat1: 26
Most Common Material: ROCK
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Formation Top Depth:</i>		69			
<i>Formation End Depth:</i>		86			
<i>Formation End Depth UOM:</i>		ft			
<u>Overburden and Bedrock Materials Interval</u>					
<i>Formation ID:</i>		931016310			
<i>Layer:</i>		3			
<i>Color:</i>		2			
<i>General Color:</i>		GREY			
<i>Mat1:</i>		09			
<i>Most Common Material:</i>		MEDIUM SAND			
<i>Mat2:</i>		11			
<i>Mat2 Desc:</i>		GRAVEL			
<i>Mat3:</i>		13			
<i>Mat3 Desc:</i>		BOULDERS			
<i>Formation Top Depth:</i>		45			
<i>Formation End Depth:</i>		69			
<i>Formation End Depth UOM:</i>		ft			
<u>Method of Construction & Well Use</u>					
<i>Method Construction ID:</i>		961510965			
<i>Method Construction Code:</i>		5			
<i>Method Construction:</i>		Air Percussion			
<i>Other Method Construction:</i>					
<u>Pipe Information</u>					
<i>Pipe ID:</i>		10581538			
<i>Casing No:</i>		1			
<i>Comment:</i>					
<i>Alt Name:</i>					
<u>Construction Record - Casing</u>					
<i>Casing ID:</i>		930058479			
<i>Layer:</i>		1			
<i>Material:</i>		1			
<i>Open Hole or Material:</i>		STEEL			
<i>Depth From:</i>					
<i>Depth To:</i>		72			
<i>Casing Diameter:</i>		6			
<i>Casing Diameter UOM:</i>		inch			
<i>Casing Depth UOM:</i>		ft			
<u>Construction Record - Casing</u>					
<i>Casing ID:</i>		930058480			
<i>Layer:</i>		2			
<i>Material:</i>		4			
<i>Open Hole or Material:</i>		OPEN HOLE			
<i>Depth From:</i>					
<i>Depth To:</i>		86			
<i>Casing Diameter:</i>		6			
<i>Casing Diameter UOM:</i>		inch			
<i>Casing Depth UOM:</i>		ft			
<u>Results of Well Yield Testing</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Test ID:		991510965			
Pump Set At:					
Static Level:	20				
Final Level After Pumping:	40				
Recommended Pump Depth:	60				
Pumping Rate:	15				
Flowing Rate:					
Recommended Pump Rate:	5				
Levels UOM:	ft				
Rate UOM:	GPM				
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:	1				
Pumping Duration HR:	1				
Pumping Duration MIN:	0				
Flowing:	No				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934899172			
Test Type:		Draw Down			
Test Duration:	60				
Test Level:	40				
Test Level UOM:	ft				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934381227			
Test Type:		Draw Down			
Test Duration:	30				
Test Level:	40				
Test Level UOM:	ft				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934642248			
Test Type:		Draw Down			
Test Duration:	45				
Test Level:	40				
Test Level UOM:	ft				
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934097519			
Test Type:		Draw Down			
Test Duration:	15				
Test Level:	40				
Test Level UOM:	ft				
<u>Water Details</u>					
Water ID:		933466027			
Layer:	2				
Kind Code:	1				
Kind:	FRESH				
Water Found Depth:	83				
Water Found Depth UOM:	ft				
<u>Water Details</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water ID: 933466026 Layer: 1 Kind Code: 1 Kind: FRESH Water Found Depth: 78 Water Found Depth UOM: ft					
9	1 of 4	SW/70.2	89.9 / 1.00	2 Bill Leathem Drive Nepean ON K2J 0P7	EHS
Order No: 20200303133 Status: C Report Type: Standard Report Report Date: 06-MAR-20 Date Received: 03-MAR-20 Previous Site Name: Lot/Building Size: Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos		Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.7148657 Y: 45.2952433			
9	2 of 4	SW/70.2	89.9 / 1.00	2 Bill Leathem Drive Nepean ON K2J 0P7	EHS
Order No: 20200303133 Status: C Report Type: Standard Report Report Date: 06-MAR-20 Date Received: 03-MAR-20 Previous Site Name: Lot/Building Size: Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos		Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.7148657 Y: 45.2952433			
9	3 of 4	SW/70.2	89.9 / 1.00	2 Bill Leathem Drive Nepean ON K2J 0P7	EHS
Order No: 20200303133 Status: C Report Type: Standard Report Report Date: 06-MAR-20 Date Received: 03-MAR-20 Previous Site Name: Lot/Building Size: Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos		Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.7148657 Y: 45.2952433			
9	4 of 4	SW/70.2	89.9 / 1.00	2 Bill Leathem Drive Nepean ON K2J 0P7	EHS
Order No: 20200303133 Status: C Report Type: Standard Report Report Date: 06-MAR-20 Date Received: 03-MAR-20 Previous Site Name: Lot/Building Size: Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos		Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.7148657 Y: 45.2952433			
10	1 of 1	WSW/71.3	89.9 / 1.00	con 2 OTTAWA ON	WWIS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well ID:	1534521			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Livestock			Date Received:	2/19/2004
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Abandoned-Other			Abandonment Rec:	
Water Type:				Contractor:	1844
Casing Material:				Form Version:	3
Audit No:	Z05665			Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	02
Overburden/Bedrock:				Concession Name:	RF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1534521.pdf

Bore Hole Information

Bore Hole ID:	11104796	Elevation:	88.896995
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:	—	East83:	443781
Code OB Desc:	No formation data	North83:	5016105
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	5
Date Completed:	11/28/2004	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	961534521
Method Construction Code:	0
Method Construction:	Not Known
Other Method Construction:	

Pipe Information

Pipe ID:	11109195
Casing No:	1
Comment:	
Alt Name:	

11 1 of 20 **SSE/72.5** **89.8 / 0.97** **ON** **BORE**

Borehole ID:	612140	Inclin FLG:	No
OGF ID:	215513449	SP Status:	Initial Entry
Status:		Surv Elev:	No

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:	JUN-1958			Municipality:	
Static Water Level:				Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.296435
Total Depth m:	18.9			Longitude DD:	-75.710762
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	444271
Drill Method:				Northing:	5016127
Orig Ground Elev m:	89.9			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	89.8				
Concession:					
Location D:					
Survey D:					
Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	218390165			Mat Consistency:	Hard
Top Depth:	0			Material Moisture:	
Bottom Depth:	14.6			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:				Geologic Formation:	
Material 2:	Boulders			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	HARDPAN,BOULDERS.				
Geology Stratum ID:	218390166			Mat Consistency:	
Top Depth:	14.6			Material Moisture:	
Bottom Depth:	18.9			Material Texture:	
Material Color:	Grey			Non Geo Mat Type:	
Material 1:	Granite			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	GRANITE. GREY. 00055CIFIED. SEISMIC VELOCITY = 6200. BEDROCK. SEISMIC VELOCITY = 20500.				
<u>Source</u>					
Source Type:	Data Survey			Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada			Source Iden:	1
Source Date:	1956-1972			Scale or Res:	Varies
Confidence:				Horizontal:	NAD27
Observatio:				Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Details:	File: OTTAWA1.txt RecordID: 04648 NTS_Sheet:				
Confiden 1:					
<u>Source List</u>					
Source Identifier:	1			Horizontal Datum:	NAD27
Source Type:	Data Survey			Vertical Datum:	Mean Average Sea Level
Source Date:	1956-1972			Projection Name:	Universal Transverse Mercator
Scale or Resolution:	Varies				
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Originators:	Geological Survey of Canada				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	2 of 20	SSE/72.5	89.8 / 0.97	JDS Uniphase Corporation 61 Bill Leatham Dr Ottawa ON K2J 0P7	SCT
Established:		8/1/1981			
Plant Size (ft²):					
Employment:					
--Details--					
Description:		Measuring, Medical and Controlling Devices Manufacturing			
SIC/NAICS Code:		334512			
Description:		Commercial and Service Industry Machinery Manufacturing			
SIC/NAICS Code:		333310			

11	3 of 20	SSE/72.5	89.8 / 0.97	JDS Uniphase Inc. 61 Bill Leatham Drive Nepean ON K2J 0P7	GEN
Generator No:		ON4267608		PO Box No:	
Status:				Country:	
Approval Years:		07,08		Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:		541710 541510 541380			
SIC Description:		Research and Development in the Physical Engineering and Life Sciences, Computer Systems Design and Related Services, Testing Laboratories			

Detail(s)

Waste Class: 148
Waste Class Desc: INORGANIC LABORATORY CHEMICALS

Waste Class: 112
Waste Class Desc: ACID WASTE - HEAVY METALS

Waste Class: 262
Waste Class Desc: DETERGENTS/SOAPS

Waste Class: 263
Waste Class Desc: ORGANIC LABORATORY CHEMICALS

Waste Class: 267
Waste Class Desc: ORGANIC ACIDS

Waste Class: 268
Waste Class Desc: AMINES

Waste Class: 331
Waste Class Desc: WASTE COMPRESSED GASES

Waste Class: 121
Waste Class Desc: ALKALINE WASTES - HEAVY METALS

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Desc: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	4 of 20	SSE/72.5	89.8 / 0.97	JDS Uniphase Corporation 61 Bill Leatham Dr Nepean ON K2J 0P7	SCT
Established:		01-JUN-81			
Plant Size (ft²):					
Employment:					
--Details--					
Description:		Measuring, Medical and Controlling Devices Manufacturing			
SIC/NAICS Code:		334512			
Description:		Commercial and Service Industry Machinery Manufacturing			
SIC/NAICS Code:		333310			

11	5 of 20	SSE/72.5	89.8 / 0.97	JDS Uniphase Inc. 61 Bill Leatham Drive Nepean ON K2J 0P7	GEN
Generator No:		ON4267608		PO Box No:	
Status:				Country:	
Approval Years:		2009		Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:		541710, 541510, 541380			
SIC Description:		Research and Development in the Physical Engineering and Life Sciences, Computer Systems Design and Related Services, Testing Laboratories			
<u>Detail(s)</u>					
Waste Class:		112			
Waste Class Desc:		ACID WASTE - HEAVY METALS			
Waste Class:		121			
Waste Class Desc:		ALKALINE WASTES - HEAVY METALS			
Waste Class:		146			
Waste Class Desc:		OTHER SPECIFIED INORGANICS			
Waste Class:		148			
Waste Class Desc:		INORGANIC LABORATORY CHEMICALS			
Waste Class:		212			
Waste Class Desc:		ALIPHATIC SOLVENTS			
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
Waste Class:		262			
Waste Class Desc:		DETERGENTS/SOAPS			
Waste Class:		263			
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			
Waste Class:		267			
Waste Class Desc:		ORGANIC ACIDS			
Waste Class:		268			
Waste Class Desc:		AMINES			
Waste Class:		331			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Desc:		WASTE COMPRESSED GASES			
11	6 of 20	SSE/72.5	89.8 / 0.97	Lumentum Ottawa Inc. 61 BILL LEATHEM DRIVE OTTAWA ON K2J 0P7	EASR
Approval No:	R-003-6325612993			SWP Area Name:	
Status:	REGISTERED			MOE District:	
Date:	2013-04-16			Municipality:	OTTAWA
Record Type:	EASR			Latitude:	
Link Source:	MOFA			Longitude:	
Project Type:	Heating System			Geometry X:	
Full Address:				Geometry Y:	
Approval Type:	EASR-Heating System				
Full PDF Link:	http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2869				
11	7 of 20	SSE/72.5	89.8 / 0.97	JDS Uniphase Inc. 61 Bill Leatham Drive Nepean ON K2J 0P7	GEN
Generator No:	ON4267608			PO Box No:	
Status:				Country:	
Approval Years:	2010			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	541710, 541510, 541380				
SIC Description:	Research and Development in the Physical Engineering and Life Sciences, Computer Systems Design and Related Services, Testing Laboratories				
<u>Detail(s)</u>					
Waste Class:	252				
Waste Class Desc:	WASTE OILS & LUBRICANTS				
Waste Class:	262				
Waste Class Desc:	DETERGENTS/SOAPS				
Waste Class:	112				
Waste Class Desc:	ACID WASTE - HEAVY METALS				
Waste Class:	146				
Waste Class Desc:	OTHER SPECIFIED INORGANICS				
Waste Class:	268				
Waste Class Desc:	AMINES				
Waste Class:	263				
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS				
Waste Class:	267				
Waste Class Desc:	ORGANIC ACIDS				
Waste Class:	212				
Waste Class Desc:	ALIPHATIC SOLVENTS				
Waste Class:	148				
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS				
Waste Class:	331				
Waste Class Desc:	WASTE COMPRESSED GASES				
Waste Class:	121				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Desc:		ALKALINE WASTES - HEAVY METALS			
11	8 of 20	SSE/72.5	89.8 / 0.97	JDS Uniphase Inc. 61 Bill Leathem Drive Nepean ON K2J 0P7	GEN
Generator No:	ON4267608			PO Box No:	
Status:				Country:	
Approval Years:	2011			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	541710, 541510, 541380				
SIC Description:	Research and Development in the Physical Engineering and Life Sciences, Computer Systems Design and Related Services, Testing Laboratories				
<u>Detail(s)</u>					
Waste Class:	148				
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS				
Waste Class:	212				
Waste Class Desc:	ALIPHATIC SOLVENTS				
Waste Class:	263				
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS				
Waste Class:	267				
Waste Class Desc:	ORGANIC ACIDS				
Waste Class:	252				
Waste Class Desc:	WASTE OILS & LUBRICANTS				
Waste Class:	146				
Waste Class Desc:	OTHER SPECIFIED INORGANICS				
Waste Class:	268				
Waste Class Desc:	AMINES				
Waste Class:	262				
Waste Class Desc:	DETERGENTS/SOAPS				
Waste Class:	121				
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS				
Waste Class:	112				
Waste Class Desc:	ACID WASTE - HEAVY METALS				
Waste Class:	331				
Waste Class Desc:	WASTE COMPRESSED GASES				
11	9 of 20	SSE/72.5	89.8 / 0.97	Lumentum Ottawa Inc. 61 BILL LEATHEM DRIVE OTTAWA ON K2J 0P7	EASR
Approval No:	R-002-3388758525			SWP Area Name:	
Status:	REGISTERED			MOE District:	
Date:	2013-11-21			Municipality:	OTTAWA
Record Type:	EASR			Latitude:	
Link Source:	MOFA			Longitude:	
Project Type:	Standby Power System			Geometry X:	
Full Address:				Geometry Y:	
Approval Type:	EASR-Standby Power System				
Full PDF Link:	http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=6531				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	10 of 20	SSE/72.5	89.8 / 0.97	JDS Uniphase Inc. 61 Bill Leatham Drive Nepean ON K2J 0P7	GEN
Generator No:	ON4267608			PO Box No:	
Status:				Country:	
Approval Years:	2012			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	541710, 541510, 541380				
SIC Description:	Research and Development in the Physical Engineering and Life Sciences, Computer Systems Design and Related Services, Testing Laboratories				
<u>Detail(s)</u>					
Waste Class:	268				
Waste Class Desc:	AMINES				
Waste Class:	148				
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS				
Waste Class:	263				
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS				
Waste Class:	146				
Waste Class Desc:	OTHER SPECIFIED INORGANICS				
Waste Class:	267				
Waste Class Desc:	ORGANIC ACIDS				
Waste Class:	212				
Waste Class Desc:	ALIPHATIC SOLVENTS				
Waste Class:	112				
Waste Class Desc:	ACID WASTE - HEAVY METALS				
Waste Class:	121				
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS				
Waste Class:	262				
Waste Class Desc:	DETERGENTS/SOAPS				
Waste Class:	331				
Waste Class Desc:	WASTE COMPRESSED GASES				
Waste Class:	252				
Waste Class Desc:	WASTE OILS & LUBRICANTS				
11	11 of 20	SSE/72.5	89.8 / 0.97	JDS Uniphase Inc. 61 Bill Leatham Drive OTTAWA ON K2J 0P7	ECA
Approval No:	8200-9DTU4Y			MOE District:	
Approval Date:	13-DEC-13			City:	OTTAWA
Status:	Approved			Longitude:	
Record Type:				Latitude:	
Link Source:				Geometry X:	
SWP Area Name:				Geometry Y:	
Approval Type:					
Project Type:	Air/Noise				
Business Name:	JDS Uniphase Inc.				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Address:					
Full Address:		61 Bill Leatham Drive Ottawa K2J 0P7			
Full PDF Link:					

11	12 of 20	SSE/72.5	89.8 / 0.97	JDS Uniphase Inc. 61 Bill Leatham Drive Nepean ON	GEN
Generator No:	ON4267608			PO Box No:	
Status:				Country:	
Approval Years:	2013			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	541710, 541510, 541380				
SIC Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING AND LIFE SCIENCES, COMPUTER SYSTEMS DESIGN AND RELATED SERVICES, TESTING LABORATORIES				

Detail(s)

Waste Class:	262
Waste Class Desc:	DETERGENTS/SOAPS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	268
Waste Class Desc:	AMINES
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	267
Waste Class Desc:	ORGANIC ACIDS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS

11	13 of 20	SSE/72.5	89.8 / 0.97	61 Bill Leatham Dr Ottawa ON K2J0P7	EHS
Order No:	20160914018			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	19-SEP-16			Search Radius (km):	.25

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Date Received:		14-SEP-16		X:	-75.710897
Previous Site Name:				Y:	45.296113
Lot/Building Size:					
Additional Info Ordered:					

11	14 of 20	SSE/72.5	89.8 / 0.97	JDS Uniphase Inc. 61 Bill Leathem Dr Ottawa ON K2J 0P7	ECA
Approval No:		8200-9DTU4Y		MOE District:	
Approval Date:		2013-12-13		City:	
Status:		Approved		Longitude:	
Record Type:		ECA		Latitude:	
Link Source:		IDS		Geometry X:	
SWP Area Name:				Geometry Y:	
Approval Type:		ECA-AIR			
Project Type:		AIR			
Business Name:		JDS Uniphase Inc.			
Address:		61 Bill Leathem Dr			
Full Address:					
Full PDF Link:		https://www.accessenvironment.ene.gov.on.ca/instruments/2549-8FFSEY-14.pdf			

11	15 of 20	SSE/72.5	89.8 / 0.97	Lumentum Ottawa Inc. 61 Bill Leathem Drive Nepean ON K2J 0P7	GEN
Generator No:		ON4267608		PO Box No:	
Status:				Country: Canada	
Approval Years:		2016		Choice of Contact: CO_OFFICIAL	
Contam. Facility:		No		Co Admin: Michael T Lane	
MHSW Facility:		No		Phone No Admin: 408-750-1880 Ext.	
SIC Code:		541710, 541510, 541380			
SIC Description:		RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING AND LIFE SCIENCES, COMPUTER SYSTEMS DESIGN AND RELATED SERVICES, TESTING LABORATORIES			

Detail(s)

Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	262
Waste Class Desc:	DETERGENTS/SOAPS
Waste Class:	267
Waste Class Desc:	ORGANIC ACIDS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		263			
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			
Waste Class:		212			
Waste Class Desc:		ALIPHATIC SOLVENTS			
Waste Class:		268			
Waste Class Desc:		AMINES			
Waste Class:		112			
Waste Class Desc:		ACID WASTE - HEAVY METALS			

11	16 of 20	SSE/72.5	89.8 / 0.97	Lumentum Ottawa Inc. 61 Bill Leatham Drive Nepean ON K2J 0P7	GEN
Generator No:	ON4267608			PO Box No:	
Status:				Country:	Canada
Approval Years:	2015			Choice of Contact:	CO_OFFICIAL
Contam. Facility:	No			Co Admin:	Michael T Lane
MHSW Facility:	No			Phone No Admin:	408-750-1880 Ext.
SIC Code:	541710, 541510, 541380				
SIC Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING AND LIFE SCIENCES, COMPUTER SYSTEMS DESIGN AND RELATED SERVICES, TESTING LABORATORIES				

Detail(s)

Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	268
Waste Class Desc:	AMINES
Waste Class:	267
Waste Class Desc:	ORGANIC ACIDS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	262
Waste Class Desc:	DETERGENTS/SOAPS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	17 of 20	SSE/72.5	89.8 / 0.97	JDS Uniphase Inc. 61 Bill Leatham Drive Nepean ON K2J 0P7	GEN
Generator No:	ON4267608			PO Box No:	
Status:				Country:	Canada
Approval Years:	2014			Choice of Contact:	CO_ADMIN
Contam. Facility:	No			Co Admin:	Michael T Lane
MHSW Facility:	No			Phone No Admin:	408-750-1880 Ext.
SIC Code:	541710, 541510, 541380				
SIC Description:	RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING AND LIFE SCIENCES, COMPUTER SYSTEMS DESIGN AND RELATED SERVICES, TESTING LABORATORIES				

Detail(s)

Waste Class:	262
Waste Class Desc:	DETERGENTS/SOAPS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS
Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	268
Waste Class Desc:	AMINES
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	267
Waste Class Desc:	ORGANIC ACIDS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS

11	18 of 20	SSE/72.5	89.8 / 0.97	Lumentum Ottawa Inc. 61 Bill Leatham Drive Nepean ON K2J 0P7	GEN
Generator No:	ON4267608			PO Box No:	
Status:	Registered			Country:	Canada
Approval Years:	As of Dec 2018			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:					
SIC Description:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Detail(s)</u>					
Waste Class:		112 C			
Waste Class Desc:		Acid solutions - containing heavy metals			
Waste Class:		112 L			
Waste Class Desc:		Acid solutions - containing heavy metals			
Waste Class:		121 C			
Waste Class Desc:		Alkaline slutions - containing heavy metals			
Waste Class:		122 C			
Waste Class Desc:		Alkaline slutions - containing other metals and non-metals (not cyanide)			
Waste Class:		145 I			
Waste Class Desc:		Wastes from the use of pigments, coatings and paints			
Waste Class:		146 T			
Waste Class Desc:		Other specified inorganic sludges, slurries or solids			
Waste Class:		148 B			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		148 I			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		212 I			
Waste Class Desc:		Aliphatic solvents and residues			
Waste Class:		212 L			
Waste Class Desc:		Aliphatic solvents and residues			
Waste Class:		252 L			
Waste Class Desc:		Waste crankcase oils and lubricants			
Waste Class:		262 L			
Waste Class Desc:		Detergents and soaps			
Waste Class:		263 B			
Waste Class Desc:		Misc. waste organic chemicals			
Waste Class:		263 I			
Waste Class Desc:		Misc. waste organic chemicals			
Waste Class:		263 L			
Waste Class Desc:		Misc. waste organic chemicals			
Waste Class:		267 C			
Waste Class Desc:		Organic acids			

<u>11</u>	19 of 20	SSE/72.5	89.8 / 0.97	Lumentum Ottawa Inc. 61 Bill Leatham Drive Nepean ON K2J 0P7	GEN
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Generator No:	ON4267608	PO Box No:	
Status:	Registered	Country:	Canada
Approval Years:	As of Jul 2020	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No Admin:	
SIC Code:			
SIC Description:			

Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class: Waste Class Desc:		263 B Misc. waste organic chemicals			
Waste Class: Waste Class Desc:		148 B Misc. wastes and inorganic chemicals			
Waste Class: Waste Class Desc:		267 C Organic acids			
Waste Class: Waste Class Desc:		112 C Acid solutions - containing heavy metals			
Waste Class: Waste Class Desc:		146 T Other specified inorganic sludges, slurries or solids			
Waste Class: Waste Class Desc:		263 L Misc. waste organic chemicals			
Waste Class: Waste Class Desc:		212 I Aliphatic solvents and residues			
Waste Class: Waste Class Desc:		121 C Alkaline slutions - containing heavy metals			
Waste Class: Waste Class Desc:		122 C Alkaline slutions - containing other metals and non-metals (not cyanide)			
Waste Class: Waste Class Desc:		145 I Wastes from the use of pigments, coatings and paints			
Waste Class: Waste Class Desc:		262 L Detergents and soaps			
Waste Class: Waste Class Desc:		112 L Acid solutions - containing heavy metals			
Waste Class: Waste Class Desc:		148 I Misc. wastes and inorganic chemicals			
Waste Class: Waste Class Desc:		263 I Misc. waste organic chemicals			
Waste Class: Waste Class Desc:		212 L Aliphatic solvents and residues			
Waste Class: Waste Class Desc:		252 L Waste crankcase oils and lubricants			

[11](#) 20 of 20 **SSE/72.5** **89.8 / 0.97** **Lumentum Ottawa Inc.**
61 Bill Leatham Drive
Nepean ON K2J 0P7 **GEN**

Generator No:	ON4267608	PO Box No:	
Status:	Registered	Country:	Canada
Approval Years:	As of Jan 2021	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No Admin:	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class: 267 C
Waste Class Desc: Organic acids

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		212 I			
Waste Class Desc:		Aliphatic solvents and residues			
Waste Class:		262 L			
Waste Class Desc:		Detergents and soaps			
Waste Class:		212 L			
Waste Class Desc:		Aliphatic solvents and residues			
Waste Class:		112 L			
Waste Class Desc:		Acid solutions - containing heavy metals			
Waste Class:		146 T			
Waste Class Desc:		Other specified inorganic sludges, slurries or solids			
Waste Class:		122 C			
Waste Class Desc:		Alkaline slutions - containing other metals and non-metals (not cyanide)			
Waste Class:		148 I			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		263 B			
Waste Class Desc:		Misc. waste organic chemicals			
Waste Class:		121 C			
Waste Class Desc:		Alkaline slutions - containing heavy metals			
Waste Class:		145 I			
Waste Class Desc:		Wastes from the use of pigments, coatings and paints			
Waste Class:		263 L			
Waste Class Desc:		Misc. waste organic chemicals			
Waste Class:		148 B			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		112 C			
Waste Class Desc:		Acid solutions - containing heavy metals			
Waste Class:		263 I			
Waste Class Desc:		Misc. waste organic chemicals			
Waste Class:		252 L			
Waste Class Desc:		Waste crankcase oils and lubricants			

[12](#) 1 of 1 **SSE/72.6** **89.8 / 0.97** **lot 18 con 1 ON** **WWIS**

Well ID:	1504702	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Livestock	Date Received:	8/5/1958
Sec. Water Use:	0	Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	3718
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	018
Well Depth:		Concession:	01
Overburden/Bedrock:		Concession Name:	RF
Pump Rate:		Easting NAD83:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1504702.pdf

Bore Hole Information

Bore Hole ID:	10026745	Elevation:	89.821701
DP2BR:	48	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	444270.7
Code OB Desc:	Bedrock	North83:	5016127
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	6/20/1958	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	931000212
Layer:	2
Color:	2
General Color:	GREY
Mat1:	21
Most Common Material:	GRANITE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	48
Formation End Depth:	62
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	931000211
Layer:	1
Color:	
General Color:	
Mat1:	14
Most Common Material:	HARDPAN
Mat2:	13
Mat2 Desc:	BOULDERS
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	48
Formation End Depth UOM:	ft

Method of Construction & Well

Use

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Method Construction ID:		961504702			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10575315			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930046222			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		62			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930046221			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		40			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991504702			
Pump Set At:					
Static Level:		18			
Final Level After Pumping:		24			
Recommended Pump Depth:					
Pumping Rate:		5			
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		2			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933458009			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		55			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Found Depth UOM:		ft			
13	1 of 18	SSW/83.0	91.0 / 2.11	CONSUMERS GAS COMPANY LTD., THE 90 BILL LEATHEM DRIVE NEPEAN ON K2G 6J2	GEN
Generator No:	ON0060850			PO Box No:	
Status:				Country:	
Approval Years:	96,97,01			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	4921				
SIC Description:	GAS DISTIRB. SYS.				
<u>Detail(s)</u>					
Waste Class:	251				
Waste Class Desc:	OIL SKIMMINGS & SLUDGES				
13	2 of 18	SSW/83.0	91.0 / 2.11	CONSUMERS GAS COMPANY 90 BILL LEATHEM DRIVE NEPEAN ON K2G 6J2	GEN
Generator No:	ON0060850			PO Box No:	
Status:				Country:	
Approval Years:	98,99,00			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	4921				
SIC Description:	GAS DISTIRB. SYS.				
<u>Detail(s)</u>					
Waste Class:	251				
Waste Class Desc:	OIL SKIMMINGS & SLUDGES				
13	3 of 18	SSW/83.0	91.0 / 2.11	ENBRIDGE SERVICES INC. 90 BILL LEATHEM DRIVE NEPEAN ON K2G 6J2	GEN
Generator No:	ON2658900			PO Box No:	
Status:				Country:	
Approval Years:	01			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	4242				
SIC Description:	DRY HEAT. & GAS PIP.				
<u>Detail(s)</u>					
Waste Class:	252				
Waste Class Desc:	WASTE OILS & LUBRICANTS				
13	4 of 18	SSW/83.0	91.0 / 2.11	Enbridge Gas Distribution 90 Bill Leatham Drive Nepean ON	GEN
Generator No:	ON6512754			PO Box No:	
Status:				Country:	
Approval Years:	03,04,05,06,07,08			Choice of Contact:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Contam. Facility: MHSW Facility: SIC Code: SIC Description:	221210	Natural Gas Distribution		Co Admin: Phone No Admin:	
<u>Detail(s)</u>					
Waste Class: Waste Class Desc:	121	ALKALINE WASTES - HEAVY METALS			
Waste Class: Waste Class Desc:	252	WASTE OILS & LUBRICANTS			
Waste Class: Waste Class Desc:	212	ALIPHATIC SOLVENTS			
Waste Class: Waste Class Desc:	263	ORGANIC LABORATORY CHEMICALS			
13	5 of 18	SSW/83.0	91.0 / 2.11	Direct Energy Inc. 90 Bill Leathern Drive Nepean ON K2G 6J2	GEN
Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	ON7859537 04 561799	All Other Services to Buildings and Dwellings		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	
13	6 of 18	SSW/83.0	91.0 / 2.11	Enbridge Gas Distribution 90 Bill Leathern Drive Nepean ON K2J 0R3	GEN
Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	ON6512754 2009 221210	Natural Gas Distribution		PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:	
<u>Detail(s)</u>					
Waste Class: Waste Class Desc:	213	PETROLEUM DISTILLATES			
Waste Class: Waste Class Desc:	221	LIGHT FUELS			
Waste Class: Waste Class Desc:	121	ALKALINE WASTES - HEAVY METALS			
Waste Class: Waste Class Desc:	212	ALIPHATIC SOLVENTS			
Waste Class: Waste Class Desc:	251	OIL SKIMMINGS & SLUDGES			
Waste Class: Waste Class Desc:	252	WASTE OILS & LUBRICANTS			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		263			
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			

13	7 of 18	SSW/83.0	91.0 / 2.11	Enbridge Gas Distribution 90 Bill Leatham Drive Nepean ON K2J 0R3	GEN
Generator No:	ON6512754			PO Box No:	
Status:				Country:	
Approval Years:	2010			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	221210				
SIC Description:	Natural Gas Distribution				

Detail(s)

Waste Class:	221				
Waste Class Desc:	LIGHT FUELS				
Waste Class:	212				
Waste Class Desc:	ALIPHATIC SOLVENTS				
Waste Class:	252				
Waste Class Desc:	WASTE OILS & LUBRICANTS				
Waste Class:	213				
Waste Class Desc:	PETROLEUM DISTILLATES				
Waste Class:	263				
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS				
Waste Class:	121				
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS				
Waste Class:	251				
Waste Class Desc:	OIL SKIMMINGS & SLUDGES				

13	8 of 18	SSW/83.0	91.0 / 2.11	Enbridge Gas Distribution 90 Bill Leatham Drive Nepean ON K2J 0R3	GEN
Generator No:	ON6512754			PO Box No:	
Status:				Country:	
Approval Years:	2011			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	221210				
SIC Description:	Natural Gas Distribution				

Detail(s)

Waste Class:	251				
Waste Class Desc:	OIL SKIMMINGS & SLUDGES				
Waste Class:	212				
Waste Class Desc:	ALIPHATIC SOLVENTS				
Waste Class:	252				
Waste Class Desc:	WASTE OILS & LUBRICANTS				
Waste Class:	221				
Waste Class Desc:	LIGHT FUELS				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		263			
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			
Waste Class:		121			
Waste Class Desc:		ALKALINE WASTES - HEAVY METALS			
Waste Class:		213			
Waste Class Desc:		PETROLEUM DISTILLATES			

13	9 of 18	SSW/83.0	91.0 / 2.11	Enbridge Gas Distribution 90 Bill Leatham Drive Nepean ON K2J 0R3	GEN
Generator No:	ON6512754			PO Box No:	
Status:				Country:	
Approval Years:	2012			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	221210				
SIC Description:	Natural Gas Distribution				
<u>Detail(s)</u>					
Waste Class:		121			
Waste Class Desc:		ALKALINE WASTES - HEAVY METALS			
Waste Class:		221			
Waste Class Desc:		LIGHT FUELS			
Waste Class:		251			
Waste Class Desc:		OIL SKIMMINGS & SLUDGES			
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
Waste Class:		213			
Waste Class Desc:		PETROLEUM DISTILLATES			
Waste Class:		212			
Waste Class Desc:		ALIPHATIC SOLVENTS			
Waste Class:		263			
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			

13	10 of 18	SSW/83.0	91.0 / 2.11	Enbridge Gas Distribution 90 Bill Leatham Drive Nepean ON	GEN
Generator No:	ON6512754			PO Box No:	
Status:				Country:	
Approval Years:	2013			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	221210				
SIC Description:	NATURAL GAS DISTRIBUTION				
<u>Detail(s)</u>					
Waste Class:		145			
Waste Class Desc:		PAINT/PIGMENT/COATING RESIDUES			
Waste Class:		221			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Desc:		LIGHT FUELS			
Waste Class:		121			
Waste Class Desc:		ALKALINE WASTES - HEAVY METALS			
Waste Class:		263			
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			
Waste Class:		243			
Waste Class Desc:		PCBS			
Waste Class:		146			
Waste Class Desc:		OTHER SPECIFIED INORGANICS			
Waste Class:		213			
Waste Class Desc:		PETROLEUM DISTILLATES			
Waste Class:		212			
Waste Class Desc:		ALIPHATIC SOLVENTS			
Waste Class:		251			
Waste Class Desc:		OIL SKIMMINGS & SLUDGES			
Waste Class:		331			
Waste Class Desc:		WASTE COMPRESSED GASES			
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			

[13](#) 11 of 18 SSW/83.0 91.0 / 2.11 90 Bill Leatham Drive Ottawa ON EHS

Order No:	20160602024	Nearest Intersection:	
Status:	C	Municipality:	City of Ottawa
Report Type:	Standard Report	Client Prov/State:	ON
Report Date:	08-JUN-16	Search Radius (km):	.25
Date Received:	02-JUN-16	X:	-75.71365
Previous Site Name:		Y:	45.294631
Lot/Building Size:	3.98 acres		
Additional Info Ordered:	Topographic Maps; Aerial Photos		

[13](#) 12 of 18 SSW/83.0 91.0 / 2.11 Enbridge Gas Distribution 90 Bill Leatham Drive Nepean ON K2G 6J2 GEN

Generator No:	ON6512754	PO Box No:	
Status:		Country:	Canada
Approval Years:	2015	Choice of Contact:	CO_OFFICIAL
Contam. Facility:	No	Co Admin:	
MHSW Facility:	No	Phone No Admin:	
SIC Code:	221210		
SIC Description:	NATURAL GAS DISTRIBUTION		

Detail(s)

Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	213

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Desc:		PETROLEUM DISTILLATES			
Waste Class:		331			
Waste Class Desc:		WASTE COMPRESSED GASES			
Waste Class:		221			
Waste Class Desc:		LIGHT FUELS			
Waste Class:		146			
Waste Class Desc:		OTHER SPECIFIED INORGANICS			
Waste Class:		121			
Waste Class Desc:		ALKALINE WASTES - HEAVY METALS			
Waste Class:		251			
Waste Class Desc:		OIL SKIMMINGS & SLUDGES			
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
Waste Class:		243			
Waste Class Desc:		PCBS			
Waste Class:		263			
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			

[13](#) 13 of 18 **SSW/83.0** 91.0 / 2.11 **Enbridge Gas Distribution** GEN

90 Bill Leathem Drive
Nepean ON K2G 6J2

Generator No:	ON6512754	PO Box No:	
Status:		Country:	Canada
Approval Years:	2014	Choice of Contact:	CO_OFFICIAL
Contam. Facility:	No	Co Admin:	
MHSW Facility:	No	Phone No Admin:	
SIC Code:	221210		
SIC Description:	NATURAL GAS DISTRIBUTION		

Detail(s)

Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	243
Waste Class Desc:	PCBS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS
Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		146			
Waste Class Desc:		OTHER SPECIFIED INORGANICS			
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
Waste Class:		251			
Waste Class Desc:		OIL SKIMMINGS & SLUDGES			

[13](#) 14 of 18 SSW/83.0 91.0 / 2.11 **Enbridge Gas Inc.**
90 Bill Leatham Drive
Nepean ON K2G 6J2 **GEN**

Generator No: ON6512754
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 121 C
Waste Class Desc: Alkaline slutions - containing heavy metals

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

Waste Class: 212 B
Waste Class Desc: Aliphatic solvents and residues

Waste Class: 213 I
Waste Class Desc: Petroleum distillates

Waste Class: 251 L
Waste Class Desc: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Desc: Waste crankcase oils and lubricants

Waste Class: 263 I
Waste Class Desc: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Desc: Waste compressed gases including cylinders

[13](#) 15 of 18 SSW/83.0 91.0 / 2.11 **Enbridge Gas Distribution**
90 Bill Leatham Drive
Nepean ON K2G 6J2 **GEN**

Generator No: ON6512754
Status:
Approval Years: 2016
Contam. Facility: No
MHSW Facility: No
SIC Code: 221210
SIC Description: NATURAL GAS DISTRIBUTION

PO Box No:
Country: Canada
Choice of Contact: CO_OFFICIAL
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 146
Waste Class Desc: OTHER SPECIFIED INORGANICS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		212			
Waste Class Desc:		ALIPHATIC SOLVENTS			
Waste Class:		221			
Waste Class Desc:		LIGHT FUELS			
Waste Class:		121			
Waste Class Desc:		ALKALINE WASTES - HEAVY METALS			
Waste Class:		263			
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			
Waste Class:		213			
Waste Class Desc:		PETROLEUM DISTILLATES			
Waste Class:		331			
Waste Class Desc:		WASTE COMPRESSED GASES			
Waste Class:		243			
Waste Class Desc:		PCBS			
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
Waste Class:		145			
Waste Class Desc:		PAINT/PIGMENT/COATING RESIDUES			
Waste Class:		251			
Waste Class Desc:		OIL SKIMMINGS & SLUDGES			

[13](#)

16 of 18

SSW/83.0

91.0 / 2.11

Enbridge Gas Inc.
90 Bill Leathem Drive
Nepean ON K2G 6J2

GEN

Generator No:
Status:
Approval Years:
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

ON6512754
Registered
As of Jul 2020

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Canada

Detail(s)

Waste Class:
Waste Class Desc:

213 I
Petroleum distillates

Waste Class:
Waste Class Desc:

251 L
Waste oils/sludges (petroleum based)

Waste Class:
Waste Class Desc:

212 B
Aliphatic solvents and residues

Waste Class:
Waste Class Desc:

121 C
Alkaline slutions - containing heavy metals

Waste Class:
Waste Class Desc:

146 T
Other specified inorganic sludges, slurries or solids

Waste Class:
Waste Class Desc:

331 I
Waste compressed gases including cylinders

Waste Class:

263 I

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Desc:		Misc. waste organic chemicals			
Waste Class:		146 L			
Waste Class Desc:		Other specified inorganic sludges, slurries or solids			
Waste Class:		252 L			
Waste Class Desc:		Waste crankcase oils and lubricants			
Waste Class:		145 I			
Waste Class Desc:		Wastes from the use of pigments, coatings and paints			

13	17 of 18	SSW/83.0	91.0 / 2.11	90 Bill Leatham Drive, Nepean Ottawa ON	SPL
Ref No:	3885-BMFVD2			Discharger Report:	
Site No:	NA			Material Group:	
Incident Dt:	2020/03/06			Health/Env Conseq:	2 - Minor Environment
Year:				Client Type:	
Incident Cause:				Sector Type:	Miscellaneous Industrial
Incident Event:	Leak/Break			Agency Involved:	
Contaminant Code:	15			Nearest Watercourse:	
Contaminant Name:	HYDRAULIC OIL			Site Address:	90 Bill Leatham Drive, Nepean
Contaminant Limit 1:				Site District Office:	Ottawa
Contam Limit Freq 1:				Site Postal Code:	
Contaminant UN No 1:	n/a			Site Region:	Eastern
Environment Impact:				Site Municipality:	Ottawa
Nature of Impact:				Site Lot:	
Receiving Medium:				Site Conc:	
Receiving Env:	Land			Northing:	5015967
MOE Response:	No			Easting:	444162
Dt MOE Arvl on Scn:				Site Geo Ref Accu:	
MOE Reported Dt:	2020/03/06			Site Map Datum:	
Dt Document Closed:	2020/07/17			SAC Action Class:	Land Spills
Incident Reason:	Equipment Failure			Source Type:	Motor Vehicle
Site Name:	Hydraulic oil spill from blown hose<UNOFFICIAL>				
Site County/District:					
Site Geo Ref Meth:					
Incident Summary:	Clintar: ~ 20 L hydraulic oil from blown hose - Bill Leatham Dr.				
Contaminant Qty:	20 L				

13	18 of 18	SSW/83.0	91.0 / 2.11	Enbridge Gas Inc. 90 Bill Leatham Drive Nepean ON K2J 0R3	GEN
Generator No:	ON6512754			PO Box No:	
Status:	Registered			Country:	Canada
Approval Years:	As of Jan 2021			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:					
SIC Description:					
Detail(s)					
Waste Class:	251 L				
Waste Class Desc:	Waste oils/sludges (petroleum based)				
Waste Class:	252 L				
Waste Class Desc:	Waste crankcase oils and lubricants				
Waste Class:	145 I				
Waste Class Desc:	Wastes from the use of pigments, coatings and paints				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		212 B			
Waste Class Desc:		Aliphatic solvents and residues			
Waste Class:		121 C			
Waste Class Desc:		Alkaline slutions - containing heavy metals			
Waste Class:		331 I			
Waste Class Desc:		Waste compressed gases including cylinders			
Waste Class:		146 T			
Waste Class Desc:		Other specified inorganic sludges, slurries or solids			
Waste Class:		146 L			
Waste Class Desc:		Other specified inorganic sludges, slurries or solids			
Waste Class:		251 T			
Waste Class Desc:		Waste oils/sludges (petroleum based)			
Waste Class:		263 I			
Waste Class Desc:		Misc. waste organic chemicals			
Waste Class:		213 I			
Waste Class Desc:		Petroleum distillates			

[14](#) 1 of 1 **SE/104.8** **87.7 / -1.15** **Leiken Drive
Ottawa ON** **EHS**

Order No:	20150302018	Nearest Intersection:	
Status:	C	Municipality:	
Report Type:	Custom Report	Client Prov/State:	ON
Report Date:	06-MAR-15	Search Radius (km):	.25
Date Received:	02-MAR-15	X:	-75.708049
Previous Site Name:		Y:	45.296427
Lot/Building Size:			
Additional Info Ordered:			

[15](#) 1 of 1 **SW/137.7** **88.7 / -0.20** **City of Ottawa
Part of Lots 18 & 19, Concession 1, Rideau Front
Ottawa ON K2G 6J8** **ECA**

Approval No:	6981-7SHQNB	MOE District:	Ottawa
Approval Date:	2009-06-02	City:	
Status:	Approved	Longitude:	-75.71520000000001
Record Type:	ECA	Latitude:	45.2946
Link Source:	IDS	Geometry X:	
SWP Area Name:	Rideau Valley	Geometry Y:	
Approval Type:	ECA-Municipal Drinking Water Systems		
Project Type:	Municipal Drinking Water Systems		
Business Name:	City of Ottawa		
Address:	Part of Lots 18 & 19, Concession 1, Rideau Front		
Full Address:			
Full PDF Link:			

[16](#) 1 of 1 **E/138.7** **82.9 / -6.00** **lot 18 con 1
ON** **WWIS**

Well ID:	1504703	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Domestic	Date Received:	7/5/1955
Sec. Water Use:	0	Selected Flag:	Yes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	3701
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	018
Well Depth:				Concession:	01
Overburden/Bedrock:				Concession Name:	RF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1504703.pdf

Bore Hole Information

Bore Hole ID:	10026746	Elevation:	89.988174
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:	o	East83:	444775.7
Code OB Desc:	Overburden	North83:	5016462
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	11/11/1954	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	p9
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931000215
Layer:	3
Color:	
General Color:	
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	60
Formation End Depth:	62
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931000213
Layer:	1
Color:	
General Color:	
Mat1:	06
Most Common Material:	SILT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		5			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931000214			
Layer:		2			
Color:					
General Color:					
Mat1:		14			
Most Common Material:		HARDPAN			
Mat2:		13			
Mat2 Desc:		BOULDERS			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		5			
Formation End Depth:		60			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961504703			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10575316			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930046223			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		62			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991504703			
Pump Set At:					
Static Level:		30			
Final Level After Pumping:		60			
Recommended Pump Depth:					
Pumping Rate:		3			
Flowing Rate:					
Recommended Pump Rate:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933458010			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		62			
Water Found Depth UOM:		ft			

17	1 of 1	E/138.7	82.9 / -6.00	ON	BORE
Borehole ID:	612148			Inclin FLG:	No
OGF ID:	215513457			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:	NOV-1954			Municipality:	
Static Water Level:				Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.29949
Total Depth m:	18.9			Longitude DD:	-75.704359
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	444776
Drill Method:				Northing:	5016462
Orig Ground Elev m:	89.9			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	90				
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID:	218390189			Mat Consistency:	Hard
Top Depth:	1.5			Material Moisture:	
Bottom Depth:	18.3			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:				Geologic Formation:	
Material 2:	Boulders			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	HARDPAN,BOULDERS.				
Geology Stratum ID:	218390190			Mat Consistency:	
Top Depth:	18.3			Material Moisture:	
Bottom Depth:	18.9			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Gravel			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Gsc Material Description:
Stratum Description: GRAVEL. 00062IFIED. SEISMIC VELOCITY = 6000. BEDROCK. SEISMIC VELOCITY = 14000. BEDROCK.

Geology Stratum ID:	218390188	Mat Consistency:	
Top Depth:	0	Material Moisture:	
Bottom Depth:	1.5	Material Texture:	
Material Color:		Non Geo Mat Type:	
Material 1:	Silt	Geologic Formation:	
Material 2:		Geologic Group:	
Material 3:		Geologic Period:	
Material 4:		Depositional Gen:	

Gsc Material Description:
Stratum Description: SILT.

Source

Source Type:	Data Survey	Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada	Source Iden:	1
Source Date:	1956-1972	Scale or Res:	Varies
Confidence:		Horizontal:	NAD27
Observatio:		Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Details:	File: OTTAWA1.txt RecordID: 04656 NTS_Sheet:		
Confiden 1:			

Source List

Source Identifier:	1	Horizontal Datum:	NAD27
Source Type:	Data Survey	Vertical Datum:	Mean Average Sea Level
Source Date:	1956-1972	Projection Name:	Universal Transverse Mercator
Scale or Resolution:	Varies		
Source Name:	Urban Geology Automated Information System (UGAIS)		
Source Originators:	Geological Survey of Canada		

18	1 of 1	ENE/140.4	82.9 / -6.00	PRINCE OF WALES Ottawa ON	WWIS
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Well ID:	7181888	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Monitoring and Test Hole	Date Received:	5/31/2012
Sec. Water Use:	0	Selected Flag:	Yes
Final Well Status:	Test Hole	Abandonment Rec:	
Water Type:		Contractor:	7323
Casing Material:		Form Version:	7
Audit No:	Z148836	Owner:	
Tag:	A117183	Street Name:	PRINCE OF WALES
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/7187181888.pdf

Bore Hole Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bore Hole ID:	1003835009			Elevation:	89.920303
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	444802
Code OB Desc:				North83:	5016626
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:	5/2/2012			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Overburden and Bedrock

Materials Interval

Formation ID:	1004328133
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	06
Mat2 Desc:	SILT
Mat3:	91
Mat3 Desc:	WATER-BEARING
Formation Top Depth:	0
Formation End Depth:	7
Formation End Depth UOM:	ft

Annular Space/Abandonment

Sealing Record

Plug ID:	1004328143
Layer:	3
Plug From:	
Plug To:	
Plug Depth UOM:	ft

Annular Space/Abandonment

Sealing Record

Plug ID:	1004328141
Layer:	1
Plug From:	0
Plug To:	1.5
Plug Depth UOM:	ft

Annular Space/Abandonment

Sealing Record

Plug ID:	1004328142
Layer:	2
Plug From:	1.5
Plug To:	7
Plug Depth UOM:	ft

Method of Construction & Well

Use

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Method Construction ID: 1004328140
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1004328132
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004328136
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 2
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1004328137
Layer: 1
Slot: .10
Screen Top Depth: 2
Screen End Depth: 7
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.25

Water Details

Water ID: 1004328135
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1004328134
Diameter: 8
Depth From: 0
Depth To: 7
Hole Depth UOM: ft
Hole Diameter UOM: inch

19	1 of 1	SSE/154.4	90.4 / 1.53	Site 2 Bill Leathem Drive Ottawa ON K2G	EHS
Order No:	20190403036	Nearest Intersection:			
Status:	C	Municipality:			
Report Type:	Standard Report	Client Prov/State:	ON		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Report Date:	09-APR-19			Search Radius (km): .25	
Date Received:	03-APR-19			X: -75.710205	
Previous Site Name:				Y: 45.294764	
Lot/Building Size:					
Additional Info Ordered:	City Directory				

20	1 of 1	E/172.5	83.0 / -5.92	2876 PRINCE OF WALES DR. lot 19 con A NEPAEN ON	WWIS
Well ID:	1534771			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:				Date Received:	7/8/2004
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Abandoned-Other			Abandonment Rec:	Yes
Water Type:				Contractor:	1119
Casing Material:				Form Version:	3
Audit No:	Z14548			Owner:	
Tag:	A014574			Street Name:	2876 PRINCE OF WALES DR.
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	019
Well Depth:				Concession:	A
Overburden/Bedrock:				Concession Name:	RF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1534771.pdf

Bore Hole Information

Bore Hole ID:	11172523			Elevation:	90.768844
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:	u			East83:	444790
Code OB Desc:	all layers are unknown type			North83:	5016519
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	3
Date Completed:	6/24/2004			UTMRC Desc:	margin of error : 10 - 30 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Overburden and Bedrock Materials Interval

Formation ID:	932968109
Layer:	1
Color:	
General Color:	
Mat1:	
Most Common Material:	
Mat2:	
Mat2 Desc:	
Mat3:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		23.8			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933252941			
Layer:		1			
Plug From:		23.8			
Plug To:		0			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961534771			
Method Construction Code:					
Method Construction:					
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11181042			
Casing No:		1			
Comment:					
Alt Name:					

21	1 of 1	ENE/174.0	83.0 / -5.92	lot 19 con A ON	WWIS
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Well ID:	1513688	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Livestock	Date Received:	1/14/1974
Sec. Water Use:	0	Selected Flag:	Yes
Final Well Status:	Water Supply	Abandonment Rec:	
Water Type:		Contractor:	3504
Casing Material:		Form Version:	1
Audit No:		Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	019
Well Depth:		Concession:	A
Overburden/Bedrock:		Concession Name:	RF
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1513688.pdf

Bore Hole Information

Bore Hole ID:	10035670	Elevation:	90.698898
DP2BR:	68	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	444795.7
Code OB Desc:	Bedrock	North83:	5016567

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Open Hole: Cluster Kind: Date Completed: 11/28/1973 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:				Org CS: UTMRC: 6 UTMRC Desc: margin of error : 300 m - 1 km Location Method: p6	
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931024189			
Layer:		3			
Color:					
General Color:					
Mat1:		26			
Most Common Material:		ROCK			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		68			
Formation End Depth:		82			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931024188			
Layer:		2			
Color:					
General Color:					
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		61			
Formation End Depth:		68			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931024187			
Layer:		1			
Color:					
General Color:					
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		61			
Formation End Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		933108808			
Layer:		1			
Plug From:		11			
Plug To:		14			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961513688			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10584240			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930063091			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		69			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991513688			
Pump Set At:					
Static Level:		27			
Final Level After Pumping:		32			
Recommended Pump Depth:		50			
Pumping Rate:		15			
Flowing Rate:					
Recommended Pump Rate:		10			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		2			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934099477			
Test Type:		Recovery			
Test Duration:		15			
Test Level:		27			
Test Level UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Draw Down & Recovery

Pump Test Detail ID: 934379716
 Test Type: Recovery
 Test Duration: 30
 Test Level: 27
 Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934640709
 Test Type: Recovery
 Test Duration: 45
 Test Level: 27
 Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934898183
 Test Type: Recovery
 Test Duration: 60
 Test Level: 27
 Test Level UOM: ft

Water Details

Water ID: 933469352
 Layer: 1
 Kind Code: 1
 Kind: FRESH
 Water Found Depth: 78
 Water Found Depth UOM: ft

Water Details

Water ID: 933469353
 Layer: 2
 Kind Code: 5
 Kind: Not stated
 Water Found Depth: 82
 Water Found Depth UOM: ft

[22](#) 1 of 4 E/188.5 82.9 / -5.95 lot 18 con A ON [WWIS](#)

Well ID: 1515468
 Construction Date:
 Primary Water Use: Domestic
 Sec. Water Use: 0
 Final Well Status: Water Supply
 Water Type:
 Casing Material:
 Audit No:
 Tag:
 Construction Method:
 Elevation (m):
 Elevation Reliability:
 Depth to Bedrock:
 Well Depth:
 Overburden/Bedrock:

Data Entry Status:
 Data Src: 1
 Date Received: 7/8/1976
 Selected Flag: Yes
 Abandonment Rec:
 Contractor: 3644
 Form Version: 1
 Owner:
 Street Name:
 County: OTTAWA
 Municipality: NEPEAN TOWNSHIP
 Site Info:
 Lot: 018
 Concession: A
 Concession Name: RF

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/151\1515468.pdf

Bore Hole Information

Bore Hole ID:	10037415	Elevation:	89.891479
DP2BR:	61	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	444829.7
Code OB Desc:	Bedrock	North83:	5016421
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	4
Date Completed:	6/22/1976	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	p4
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	931029258
Layer:	3
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	61
Formation End Depth:	74
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	931029259
Layer:	4
Color:	1
General Color:	WHITE
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	74
Formation End Depth:	84
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation ID:		931029257			
Layer:		2			
Color:		3			
General Color:		BLUE			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		10			
Formation End Depth:		61			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		931029256			
Layer:		1			
Color:		2			
General Color:		GREY			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		10			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961515468			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10585985			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930066019			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		63			
Casing Diameter:		6			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991515468			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Set At:					
Static Level:		25			
Final Level After Pumping:		50			
Recommended Pump Depth:		50			
Pumping Rate:		20			
Flowing Rate:					
Recommended Pump Rate:		5			
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		2			
Water State After Test:		CLOUDY			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934646886			
Test Type:		Draw Down			
Test Duration:		45			
Test Level:		50			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934100947			
Test Type:		Draw Down			
Test Duration:		15			
Test Level:		50			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934377011			
Test Type:		Draw Down			
Test Duration:		30			
Test Level:		50			
Test Level UOM:		ft			
 <u>Draw Down & Recovery</u>					
Pump Test Detail ID:		934896011			
Test Type:		Draw Down			
Test Duration:		60			
Test Level:		50			
Test Level UOM:		ft			
 <u>Water Details</u>					
Water ID:		933471568			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		82			
Water Found Depth UOM:		ft			

[22](#)

2 of 4

E/188.5

82.9 / -5.95

MR GAS LIMITED**
2931 HWY 16 RR 2 RR 2 LCD MERIVALE
NEPEAN K2C 3H1 ON CA
ON

FST

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Instance No:	10905746			Manufacturer:	
Status:				Serial No:	
Cont Name:				Ulc Standard:	
Instance Type:				Quantity:	
Item:	FS LIQUID FUEL TANK			Unit of Measure:	
Item Description:	FS Liquid Fuel Tank			Fuel Type:	Gasoline
Tank Type:	Liquid Fuel Single Wall UST			Fuel Type2:	NULL
Install Date:	10/2/1989			Fuel Type3:	NULL
Install Year:	1978			Piping Steel:	
Years in Service:				Piping Galvanized:	
Model:	NULL			Tanks Single Wall St:	
Description:				Piping Underground:	
Capacity:	22700			Num Underground:	
Tank Material:	Steel			Panam Related:	
Corrosion Protect:				Panam Venue:	
Overfill Protect:					
Facility Type:	FS Liquid Fuel Tank				
Parent Facility Type:					
Facility Location:					
Device Installed Location:	2931 HWY 16 RR 2 RR 2 LCD MERIVALE NEPEAN K2C 3H1 ON CA				

Fuel Storage Tank Details

Owner Account Name: MR GAS LIMITED**

22	3 of 4	E/188.5	82.9 / -5.95	MR GAS LIMITED** 2931 HWY 16 RR 2 RR 2 LCD MERIVALE NEPEAN K2C 3H1 ON CA ON	FST
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Instance No:	10905779			Manufacturer:	
Status:				Serial No:	
Cont Name:				Ulc Standard:	
Instance Type:				Quantity:	
Item:	FS LIQUID FUEL TANK			Unit of Measure:	
Item Description:	FS Liquid Fuel Tank			Fuel Type:	Gasoline
Tank Type:	Liquid Fuel Single Wall UST			Fuel Type2:	NULL
Install Date:	10/2/1989			Fuel Type3:	NULL
Install Year:	1978			Piping Steel:	
Years in Service:				Piping Galvanized:	
Model:	NULL			Tanks Single Wall St:	
Description:				Piping Underground:	
Capacity:	22700			Num Underground:	
Tank Material:	Steel			Panam Related:	
Corrosion Protect:				Panam Venue:	
Overfill Protect:					
Facility Type:	FS Liquid Fuel Tank				
Parent Facility Type:					
Facility Location:					
Device Installed Location:	2931 HWY 16 RR 2 RR 2 LCD MERIVALE NEPEAN K2C 3H1 ON CA				

Fuel Storage Tank Details

Owner Account Name: MR GAS LIMITED**

22	4 of 4	E/188.5	82.9 / -5.95	MR GAS LIMITED** 2931 HWY 16 RR 2 RR 2 LCD MERIVALE NEPEAN K2C 3H1 ON CA ON	FST
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Instance No:	10905764			Manufacturer:	
Status:				Serial No:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Cont Name: Instance Type: Item: FS LIQUID FUEL TANK Item Description: FS Liquid Fuel Tank Tank Type: Liquid Fuel Single Wall UST Install Date: 10/2/1989 Install Year: 1987 Years in Service: Model: NULL Description: Capacity: 15000 Tank Material: Steel Corrosion Protect: Overfill Protect: Facility Type: FS Liquid Fuel Tank Parent Facility Type: Facility Location: Device Installed Location: 2931 HWY 16 RR 2 RR 2 LCD MERIVALE NEPEAN K2C 3H1 ON CA				Ulc Standard: Quantity: Unit of Measure: Fuel Type: Gasoline Fuel Type2: NULL Fuel Type3: NULL Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: Num Underground: Panam Related: Panam Venue:	

Fuel Storage Tank Details

Owner Account Name: MR GAS LIMITED**

23	1 of 3	SSE/250.0	90.0 / 1.08	JDS Uniphase Inc. 15 Bill Leatham Drive Ottawa CITY OF OTTAWA ON	EBR
EBR Registry No: 010-0780 Ministry Ref No: 1728-73PKJ5 Notice Type: Instrument Decision Notice Stage: Notice Date: November 13, 2007 Proposal Date: June 08, 2007 Year: 2007 Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air) Off Instrument Name: Posted By: Company Name: JDS Uniphase Inc. Site Address: Location Other: Proponent Name: Proponent Address: 300 Merivale Road, Ottawa Ontario, Canada K2G 5W8 Comment Period: URL:				Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map:	

Site Location Details:

15 Bill Leatham Drive Ottawa CITY OF OTTAWA

23	2 of 3	SSE/250.0	90.0 / 1.08	JDS Uniphase Inc. 15 Bill Leatham Drive Ottawa K2J 0P7 CITY OF OTTAWA ON	EBR
EBR Registry No: 011-3348 Ministry Ref No: 2549-8FFSEY Notice Type: Instrument Decision Notice Stage: Notice Date: December 23, 2013 Proposal Date: April 26, 2011 Year: 2011				Decision Posted: Exception Posted: Section: Act 1: Act 2: Site Location Map:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Instrument Type:		(EPA Part II.1-air) - Environmental Compliance Approval (project type: air)			
Off Instrument Name:					
Posted By:					
Company Name:		JDS Uniphase Inc.			
Site Address:					
Location Other:					
Proponent Name:					
Proponent Address:		61 Bill Leathem Drive, Ottawa Ontario, Canada K2J 0P7			
Comment Period:					
URL:					
Site Location Details:					
15 Bill Leathem Drive Ottawa K2J 0P7 CITY OF OTTAWA					

23	3 of 3	SSE/250.0	90.0 / 1.08	JDS Uniphase Inc. 15 Bill Leathem Dr Ottawa ON K2G 5W8	ECA
Approval No:		9682-78NHMB		MOE District:	
Approval Date:		2007-11-05		City:	
Status:		Revoked and/or Replaced		Longitude:	
Record Type:		ECA		Latitude:	
Link Source:		IDS		Geometry X:	
SWP Area Name:				Geometry Y:	
Approval Type:		ECA-AIR			
Project Type:		AIR			
Business Name:		JDS Uniphase Inc.			
Address:		15 Bill Leathem Dr			
Full Address:					
Full PDF Link:		https://www.accessenvironment.ene.gov.on.ca/instruments/1728-73PKJ5-13.pdf			

24	1 of 1	E/279.5	82.6 / -6.31	lot 18 con A ON	WWIS
Well ID:		1504087		Data Entry Status:	
Construction Date:				Data Src: 1	
Primary Water Use:		Domestic		Date Received: 9/1/1954	
Sec. Water Use:		0		Selected Flag: Yes	
Final Well Status:		Water Supply		Abandonment Rec:	
Water Type:				Contractor: 3701	
Casing Material:				Form Version: 1	
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County: OTTAWA	
Elevation (m):				Municipality: NEPEAN TOWNSHIP	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot: 018	
Well Depth:				Concession: A	
Overburden/Bedrock:				Concession Name: RF	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1504087.pdf			

Bore Hole Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Bore Hole ID:	10026130			Elevation:	88.084953
DP2BR:	67			Elevrc:	
Spatial Status:				Zone:	18
Code OB:	r			East83:	444885.7
Code OB Desc:	Bedrock			North83:	5016292
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	9
Date Completed:	8/18/1954			UTMRC Desc:	unknown UTM
Remarks:				Location Method:	p9
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					

Overburden and Bedrock Materials Interval

Formation ID: 930998366
Layer: 1
Color:
General Color:
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 46
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930998369
Layer: 4
Color:
General Color:
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 67
Formation End Depth: 102
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 930998367
Layer: 2
Color:
General Color:
Mat1: 14
Most Common Material: HARDPAN
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Formation Top Depth:</i>			46		
<i>Formation End Depth:</i>			60		
<i>Formation End Depth UOM:</i>			ft		
<u>Overburden and Bedrock Materials Interval</u>					
<i>Formation ID:</i>			930998368		
<i>Layer:</i>			3		
<i>Color:</i>					
<i>General Color:</i>					
<i>Mat1:</i>			09		
<i>Most Common Material:</i>			MEDIUM SAND		
<i>Mat2:</i>					
<i>Mat2 Desc:</i>					
<i>Mat3:</i>					
<i>Mat3 Desc:</i>					
<i>Formation Top Depth:</i>			60		
<i>Formation End Depth:</i>			67		
<i>Formation End Depth UOM:</i>			ft		
<u>Overburden and Bedrock Materials Interval</u>					
<i>Formation ID:</i>			930998370		
<i>Layer:</i>			5		
<i>Color:</i>					
<i>General Color:</i>					
<i>Mat1:</i>			18		
<i>Most Common Material:</i>			SANDSTONE		
<i>Mat2:</i>					
<i>Mat2 Desc:</i>					
<i>Mat3:</i>					
<i>Mat3 Desc:</i>					
<i>Formation Top Depth:</i>			102		
<i>Formation End Depth:</i>			146		
<i>Formation End Depth UOM:</i>			ft		
<u>Method of Construction & Well Use</u>					
<i>Method Construction ID:</i>			961504087		
<i>Method Construction Code:</i>			1		
<i>Method Construction:</i>			Cable Tool		
<i>Other Method Construction:</i>					
<u>Pipe Information</u>					
<i>Pipe ID:</i>			10574700		
<i>Casing No:</i>			1		
<i>Comment:</i>					
<i>Alt Name:</i>					
<u>Construction Record - Casing</u>					
<i>Casing ID:</i>			930044991		
<i>Layer:</i>			2		
<i>Material:</i>			4		
<i>Open Hole or Material:</i>			OPEN HOLE		
<i>Depth From:</i>					
<i>Depth To:</i>			146		
<i>Casing Diameter:</i>			4		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930044990			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		82			
Casing Diameter:		4			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991504087			
Pump Set At:					
Static Level:		30			
Final Level After Pumping:		80			
Recommended Pump Depth:					
Pumping Rate:		8			
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			
Pumping Duration HR:		1			
Pumping Duration MIN:		0			
Flowing:		No			
<u>Water Details</u>					
Water ID:		933457160			
Layer:		3			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		146			
Water Found Depth UOM:		ft			
<u>Water Details</u>					
Water ID:		933457159			
Layer:		2			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		135			
Water Found Depth UOM:		ft			
<u>Water Details</u>					
Water ID:		933457158			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		100			
Water Found Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
25	1 of 2	ESE/280.1	84.9 / -4.00	PUBLIC WORKS GOVERNMENT SERVICES CANADA 73 LEIKIN DR SUITE M1-0-911 OTTAWA K1A 0R2 ON CA ON	CFOT
Licence No: Registration No: Posse File No: Posse Reg No: Status Name: Tank Type: Double Wall UST Tank Size: 5000 Tank Material: Fiberglass (FRP) Instance No: 64713706 Inst Creation Date: 1/12/2016 1:48:38 PM Inst Install Date: 1/12/2016 1:48:38 PM Item: FS FUEL OIL TANK Tank Age (as of 05/1992): Device Installed Location: 73 LEIKIN DR SUITE M1-0-911 OTTAWA K1A 0R2 ON CA Description: NULL Contact Name: Contact Address: Contact Address2: Contact Suite: Contact City: Contact Prov: Contact Postal:		Item Description: Fuel Oil Tank Instance Type: Facility Type: Fuel Type: Distributor: Letter Sent: Comments: Corrosion Protect: Province: Nbr: Context: FS Fuel Oil Tank			
25	2 of 2	ESE/280.1	84.9 / -4.00	PUBLIC WORKS GOVERNMENT SERVICES CANADA 73 LEIKIN DR SUITE M1-0-911 OTTAWA K1A 0R2 ON CA ON	FST
Instance No: 64713706 Status: Active Cont Name: Instance Type: Item: Item Description: Fuel Oil Tank Tank Type: Double Wall UST Install Date: 1/12/2016 1:48:38 PM Install Year: 2012 Years in Service: NULL Model: P40DW Description: NULL Capacity: 5000 Tank Material: Fiberglass (FRP) Corrosion Protect: NULL Overfill Protect: Facility Type: FS FUEL OIL TANK Parent Facility Type: Facility Location: 73 LEIKIN DR SUITE M1-0-911 OTTAWA K1A 0R2 ON CA Device Installed Location:		Manufacturer: ZCL Serial No: NULL Ulc Standard: NULL Quantity: 1 Unit of Measure: EA Fuel Type: Fuel Type2: Fuel Type3: Piping Steel: Piping Galvanized: Tanks Single Wall St: Piping Underground: Num Underground: Panam Related: NULL Panam Venue: NULL			
26	1 of 1	ENE/285.4	80.8 / -8.06	lot 19 con A ON	WWIS
Well ID: 1504097 Construction Date: Primary Water Use: Domestic Sec. Water Use: 0		Data Entry Status: Data Src: 1 Date Received: 11/7/1956 Selected Flag: Yes			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	4216
Casing Material:				Form Version:	1
Audit No:				Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	019
Well Depth:				Concession:	A
Overburden/Bedrock:				Concession Name:	RF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/150\1504097.pdf

Bore Hole Information

Bore Hole ID:	10026140	Elevation:	89.116394
DP2BR:	54	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	444970.7
Code OB Desc:	Bedrock	North83:	5016772
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	5
Date Completed:	9/12/1956	UTMRC Desc:	margin of error : 100 m - 300 m
Remarks:		Location Method:	p5
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	930998395
Layer:	2
Color:	
General Color:	
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	54
Formation End Depth:	70
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	930998394
Layer:	1
Color:	
General Color:	
Mat1:	05
Most Common Material:	CLAY

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0			
Formation End Depth:		54			
Formation End Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		961504097			
Method Construction Code:		1			
Method Construction:		Cable Tool			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		10574710			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930045009			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:		70			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Construction Record - Casing</u>					
Casing ID:		930045008			
Layer:		1			
Material:		1			
Open Hole or Material:		STEEL			
Depth From:					
Depth To:		54			
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		991504097			
Pump Set At:					
Static Level:		18			
Final Level After Pumping:		22			
Recommended Pump Depth:					
Pumping Rate:		6			
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:		1			
Water State After Test:		CLEAR			
Pumping Test Method:		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:		No			
<u>Water Details</u>					
Water ID:		933457175			
Layer:		1			
Kind Code:		1			
Kind:		FRESH			
Water Found Depth:		54			
Water Found Depth UOM:		ft			

27	1 of 1	ENE/285.4	80.8 / -8.06	ON	BORE
Borehole ID:		612159		Inclin FLG: No	
OGF ID:		215513468		SP Status: Initial Entry	
Status:				Surv Elev: No	
Type:		Borehole		Piezometer: No	
Use:				Primary Name:	
Completion Date:		SEP-1956		Municipality:	
Static Water Level:				Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD: 45.302296	
Total Depth m:		21.3		Longitude DD: -75.701907	
Depth Ref:		Ground Surface		UTM Zone: 18	
Depth Elev:				Easting: 444971	
Drill Method:				Northing: 5016772	
Orig Ground Elev m:		88.4		Location Accuracy:	
Elev Reliabil Note:				Accuracy: Not Applicable	
DEM Ground Elev m:		89.1			
Concession:					
Location D:					
Survey D:					
Comments:					

Borehole Geology Stratum

Geology Stratum ID:		218390226		Mat Consistency:	
Top Depth:		16.5		Material Moisture:	
Bottom Depth:		21.3		Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:		Sandstone		Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:		SANDSTONE. 00054Y = 1400. UNSPECIFIED. SEISMIC VELOCITY = 3800. BEDROCK. SEISMIC VELOCITY = **Note: Many records provided by the department have a truncated [Stratum Description] field.			
Geology Stratum ID:		218390225		Mat Consistency:	
Top Depth:		0		Material Moisture:	
Bottom Depth:		16.5		Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:		Clay		Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:		CLAY.			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Source					
Source Type:	Data Survey			Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada			Source Ident:	1
Source Date:	1956-1972			Scale or Res:	Varies
Confidence:				Horizontal:	NAD27
Observatio:				Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Details:	File: OTTAWA1.txt RecordID: 04667 NTS_Sheet:				
Confiden 1:					
Source List					
Source Identifier:	1			Horizontal Datum:	NAD27
Source Type:	Data Survey			Vertical Datum:	Mean Average Sea Level
Source Date:	1956-1972			Projection Name:	Universal Transverse Mercator
Scale or Resolution:	Varies				
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Originators:	Geological Survey of Canada				
28	1 of 36	ESE/292.2	83.9 / -5.00	CONTRACTOR 3000 MERIVALE RD AT HWY 16- CONSTRUCTION SITE MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON	SPL
Ref No:	152313			Discharger Report:	
Site No:				Material Group:	
Incident Dt:	2/10/1998			Health/Env Conseq:	
Year:				Client Type:	
Incident Cause:	OTHER CAUSE (N.O.S.)			Sector Type:	
Incident Event:				Agency Involved:	
Contaminant Code:				Nearest Watercourse:	
Contaminant Name:				Site Address:	
Contaminant Limit 1:				Site District Office:	
Contam Limit Freq 1:				Site Postal Code:	
Contaminant UN No 1:				Site Region:	
Environment Impact:	POSSIBLE			Site Municipality:	20101
Nature of Impact:	Soil contamination			Site Lot:	
Receiving Medium:	LAND			Site Conc:	
Receiving Env:				Northing:	
MOE Response:				Easting:	
Dt MOE Arvl on Scn:				Site Geo Ref Accu:	
MOE Reported Dt:	2/11/1998			Site Map Datum:	
Dt Document Closed:				SAC Action Class:	
Incident Reason:	ERROR			Source Type:	
Site Name:					
Site County/District:					
Site Geo Ref Meth:					
Incident Summary:	GEODEX CONSTRUCTION-5L OF MOTOR OIL TO GROUND.				
Contaminant Qty:					
28	2 of 36	ESE/292.2	83.9 / -5.00	JDS FITEL (UNIPHASE) INC. 3000 MERIVALE RD, PARKING LOT 3000 MERIVALE RD NEPEAN ON NEPEAN CITY ON	SPL
Ref No:	179071			Discharger Report:	
Site No:				Material Group:	
Incident Dt:	3/28/2000			Health/Env Conseq:	
Year:				Client Type:	
Incident Cause:	OTHER CONTAINER LEAK			Sector Type:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Incident Event:				Agency Involved:	
Contaminant Code:				Nearest Watercourse:	
Contaminant Name:				Site Address:	
Contaminant Limit 1:				Site District Office:	
Contam Limit Freq 1:				Site Postal Code:	
Contaminant UN No 1:				Site Region:	
Environment Impact:	POSSIBLE			Site Municipality:	20104
Nature of Impact:	Water course or lake			Site Lot:	
Receiving Medium:	LAND			Site Conc:	
Receiving Env:				Northing:	
MOE Response:				Easting:	
Dt MOE Arvl on Scn:				Site Geo Ref Accu:	
MOE Reported Dt:	3/31/2000			Site Map Datum:	
Dt Document Closed:				SAC Action Class:	
Incident Reason:	ERROR			Source Type:	
Site Name:					
Site County/District:					
Site Geo Ref Meth:					
Incident Summary:	JDS UNIPHASE-4L METHYLENECHLORIDE TO PVMT,POSSIBLEC-BASIN.TO CHECK/PUMP.				
Contaminant Qty:					

28	3 of 36	ESE/292.2	83.9 / -5.00	JDS UNIPHASE INC. 3000 MERIVALE ROAD NEPEAN CITY ON	CA
Certificate #:		8-4255-99-			
Application Year:		99			
Issue Date:		//			
Approval Type:		Industrial air			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:	BOILERS, CLEANING TANK, STANDBY POWER				
Contaminants:					
Emission Control:					

28	4 of 36	ESE/292.2	83.9 / -5.00	3000 Merivale Road Nepean ON	CA
Certificate #:		1464-4VGSD5			
Application Year:		01			
Issue Date:		4/10/01			
Approval Type:		Industrial air			
Status:		Approved			
Application Type:		New Certificate of Approval			
Client Name:		JDS Uniphase Inc.			
Client Address:		570 West Hunt Club Road			
Client City:		Nepean			
Client Postal Code:		K2G 5W8			
Project Description:	Installation of three natural gas boilers for heating water exhausting from a common 0.5m diameter stack and one natural gas boiler for steam production. One 0.1 diameter muffler, 6m above ground, discharging the exhaust from a 355 kw emergency diesel generator located approximately 5m from the main building housed in its own weather proof structure. Two 1.56m diameter stacks located on the roof, discharging the production exhaust from all localized exhaust systems in the clean rooms, packing and sealing room, oven rooms and research lab. Only one production exhaust stack operates at any one time. Four roof top cooling towers and eight rooftop air handling units of various size.				
Contaminants:					
Emission Control:		No Controls			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
28	5 of 36	ESE/292.2	83.9 / -5.00	3000 Merivale Road Nepean ON	CA
Certificate #:		1298-568SSM			
Application Year:		02			
Issue Date:		5/13/02			
Approval Type:		Industrial air			
Status:		Approved			
Application Type:		New Certificate of Approval			
Client Name:		JDS Uniphase Inc.			
Client Address:		570 West Hunt Club Road			
Client City:		Nepean			
Client Postal Code:		K2G 5W8			
Project Description:		This application is for a comprehensive site-wide certificate of approval for emissions to atmosphere from the manufacture of clean and package fibre optic components using solvents and epoxies. In addition to existing approved sources, sources that discharge to atmosphere include a laser laboratory, deuterium loader, isolator assembly, slot block assembly, lens preparation, relay body assembly, reflectivity measuring, mirror inspection (coating and cleaning), sealing and packaging, rework booth, centrepiece and device curing, sandblasting, centrepiece assembly exhaust, polishing laboratory exhaust (degreaser), polishing laboratory exhaust (fume hood), polishing laboratory exhaust (spray booth), sandblasting room exhaust, wet bench, chemical storage locker exhaust (coating room), boxcoater exhaust, production exhaust system, process exhaust system, circuit card assembly (cleaning and coating), assembly room (gluing and soldering) and a production exhaust system in Building N.			
Contaminants:					
Emission Control:					
28	6 of 36	ESE/292.2	83.9 / -5.00	3000 Merivale Road Nepean ON	CA
Certificate #:		5404-4U4M53			
Application Year:		01			
Issue Date:		2/20/01			
Approval Type:		Industrial air			
Status:		Approved			
Application Type:		Amended CofA			
Client Name:		JDS Uniphase Corporation			
Client Address:		570 West Hunt Club Road			
Client City:		Nepean			
Client Postal Code:		K2G 5W8			
Project Description:		The purpose of the amendment is to re-address the impact of the standby diesel generator based on control measures which were not accounted for in the previous analysis.			
Contaminants:					
Emission Control:					
28	7 of 36	ESE/292.2	83.9 / -5.00	JDS Uniphase Corporation 3000 Merivale Road NEPEAN ON	EBR
EBR Registry No:		IA9E1227		Decision Posted:	
Ministry Ref No:		8422699		Exception Posted:	
Notice Type:		Instrument Decision		Section:	
Notice Stage:				Act 1:	
Notice Date:		February 27, 2009		Act 2:	
Proposal Date:		October 07, 1999		Site Location Map:	
Year:		1999			
Instrument Type:		(EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)			
Off Instrument Name:					
Posted By:					
Company Name:		JDS Uniphase Corporation			
Site Address:					
Location Other:					
Proponent Name:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Proponent Address: 570 West Hunt Club Road, Nepean Ontario, K2G 5W8
Comment Period:
URL:

Site Location Details:

3000 Merivale Road NEPEAN

<u>28</u>	8 of 36	ESE/292.2	83.9 / -5.00	JDS Uniphase Inc. 3000 Merivale Road NEPEAN ON	EBR
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EBR Registry No: IA9E1735
Ministry Ref No: 8425599
Notice Type: Instrument Decision
Notice Stage:
Notice Date: February 01, 2000
Proposal Date: November 15, 1999
Year: 1999

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)

Off Instrument Name:
Posted By:
Company Name: JDS Uniphase Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 570 West Hunt Club Road, Nepean Ontario, K2G 5W8
Comment Period:
URL:

Site Location Details:

3000 Merivale Road NEPEAN

<u>28</u>	9 of 36	ESE/292.2	83.9 / -5.00	JDS Uniphase Inc. 3000 Merivale Road Nepean Ontario K2G 6N7 Nepean ON	EBR
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EBR Registry No: IA00E1893
Ministry Ref No: 1048-4RST89
Notice Type: Instrument Decision
Notice Stage:
Notice Date: April 18, 2001
Proposal Date: December 12, 2000
Year: 2000

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)

Off Instrument Name:
Posted By:
Company Name: JDS Uniphase Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 2445 St. Laurent Boulevard, Ottawa Ontario, K1G 6C3
Comment Period:
URL:

Site Location Details:

3000 Merivale Road Nepean Ontario K2G 6N7 Nepean

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
28	10 of 36	ESE/292.2	83.9 / -5.00	JDS Uniphase Inc. 3000 Merivale Road Nepean Ontario K2G 6N7 Nepean ON	EBR
EBR Registry No: IA01E1524 Ministry Ref No: 5233-53ZKQF Notice Type: Instrument Decision Notice Stage: Notice Date: May 22, 2002 Proposal Date: October 30, 2001 Year: 2001 Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air) Off Instrument Name: Posted By: Company Name: JDS Uniphase Inc. Site Address: Location Other: Proponent Name: Proponent Address: 2445 St. Laurent Boulevard, Ottawa Ontario, K1G 6C3 Comment Period: URL: Site Location Details: 3000 Merivale Road Nepean Ontario K2G 6N7 Nepean					
28	11 of 36	ESE/292.2	83.9 / -5.00	JDS Uniphase Ltd. 3000 Merivale Rd Nepean ON	SCT
Established: 1981 Plant Size (ft²): Employment: 011 --Details-- Description: Commercial and Service Industry Machinery Manufacturing SIC/NAICS Code: 333310 Description: Measuring, Medical and Controlling Devices Manufacturing SIC/NAICS Code: 334512					
28	12 of 36	ESE/292.2	83.9 / -5.00	JDS FITEL INC. 3000 MERIVALE ROAD NEPEAN ON K2C 3H1	GEN
Generator No: ON1312004 Status: Approval Years: 98 Contam. Facility: MHSW Facility: SIC Code: 3359 SIC Description: OTHER COMMUN. & ELE. PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin:					
Detail(s)					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		212			
Waste Class Desc:		ALIPHATIC SOLVENTS			
Waste Class:		263			
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			

28	13 of 36	ESE/292.2	83.9 / -5.00	JDS UNIPHASE CORPORATION 3000 MERIVALE ROAD NEPEAN ON K2C 3H1	GEN
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Generator No:	ON1312004	PO Box No:	
Status:		Country:	
Approval Years:	99,00,01	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No Admin:	
SIC Code:	3359		
SIC Description:	OTHER COMMUN. & ELE.		

Detail(s)

Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS
Waste Class:	114
Waste Class Desc:	OTHER INORGANIC ACID WASTES
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES
Waste Class:	241
Waste Class Desc:	HALOGENATED SOLVENTS
Waste Class:	253
Waste Class Desc:	EMULSIFIED OILS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS

28	14 of 36	ESE/292.2	83.9 / -5.00	JDS UNIPHASE Inc. 3000 MERIVALE ROAD NEPEAN ON K2C 3H1	GEN
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Generator No:	ON1312004	PO Box No:	
Status:		Country:	
Approval Years:	02,03,04,05,06,07,08	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No Admin:	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	232
Waste Class Desc:	POLYMERIC RESINS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		251			
Waste Class Desc:		OIL SKIMMINGS & SLUDGES			
Waste Class:		113			
Waste Class Desc:		ACID WASTE - OTHER METALS			
Waste Class:		112			
Waste Class Desc:		ACID WASTE - HEAVY METALS			
Waste Class:		114			
Waste Class Desc:		OTHER INORGANIC ACID WASTES			
Waste Class:		146			
Waste Class Desc:		OTHER SPECIFIED INORGANICS			
Waste Class:		148			
Waste Class Desc:		INORGANIC LABORATORY CHEMICALS			
Waste Class:		212			
Waste Class Desc:		ALIPHATIC SOLVENTS			
Waste Class:		213			
Waste Class Desc:		PETROLEUM DISTILLATES			
Waste Class:		241			
Waste Class Desc:		HALOGENATED SOLVENTS			
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
Waste Class:		253			
Waste Class Desc:		EMULSIFIED OILS			
Waste Class:		263			
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			
Waste Class:		312			
Waste Class Desc:		PATHOLOGICAL WASTES			
Waste Class:		331			
Waste Class Desc:		WASTE COMPRESSED GASES			
Waste Class:		122			
Waste Class Desc:		ALKALINE WASTES - OTHER METALS			

[28](#)

15 of 36

ESE/292.2

83.9 / -5.00

**JDS Uniphase Corporation
3000 Merivale Rd
Nepean ON K2G 6N7**

SCT

Established: 1981
Plant Size (ft²):
Employment:

--Details--

Description: Commercial and Service Industry Machinery Manufacturing
SIC/NAICS Code: 333310

Description: Measuring, Medical and Controlling Devices Manufacturing
SIC/NAICS Code: 334512

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
28	16 of 36	ESE/292.2	83.9 / -5.00	Minto Commercial Inc. 3000 Merivale Road Ottawa ON K2G6N7	GEN
Generator No:	ON9464946			PO Box No:	
Status:				Country:	
Approval Years:	05,06,07,08			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	531120				
SIC Description:	Lessors of Non-Residential Buildings (except Mini-Warehouses)				
Detail(s)					
Waste Class:	212				
Waste Class Desc:	ALIPHATIC SOLVENTS				
Waste Class:	263				
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS				
Waste Class:	251				
Waste Class Desc:	OIL SKIMMINGS & SLUDGES				
Waste Class:	252				
Waste Class Desc:	WASTE OILS & LUBRICANTS				
28	17 of 36	ESE/292.2	83.9 / -5.00	3000 Merivale Road Ottawa ON	EHS
Order No:	20071115015			Nearest Intersection:	Merivale Rd. and Queen Anne Crec.
Status:	C			Municipality:	
Report Type:	CAN - Complete Report			Client Prov/State:	
Report Date:	11/26/2007			Search Radius (km):	0.25
Date Received:	11/15/2007			X:	-75.704145
Previous Site Name:				Y:	45.295958
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps And /or Site Plans				
28	18 of 36	ESE/292.2	83.9 / -5.00	JDS Uniphase Inc. 3000 Merivale Road Nepean ON	SPL
Ref No:	8075-5KULXJ			Discharger Report:	
Site No:				Material Group:	Gases/Particulate
Incident Dt:	3/21/2003			Health/Env Conseq:	
Year:				Client Type:	
Incident Cause:				Sector Type:	
Incident Event:				Agency Involved:	
Contaminant Code:	38			Nearest Watercourse:	
Contaminant Name:	FREON R-22 (CFC)			Site Address:	
Contaminant Limit 1:				Site District Office:	Ottawa
Contam Limit Freq 1:				Site Postal Code:	
Contaminant UN No 1:				Site Region:	Eastern
Environment Impact:	Confirmed			Site Municipality:	Nepean
Nature of Impact:	Air Pollution			Site Lot:	
Receiving Medium:	Air			Site Conc:	
Receiving Env:				Northing:	NA
MOE Response:				Easting:	NA
Dt MOE Arvl on Scn:				Site Geo Ref Accu:	
MOE Reported Dt:	3/21/2003			Site Map Datum:	
Dt Document Closed:				SAC Action Class:	Spill to Air
Incident Reason:	Equipment Failure			Source Type:	
Site Name:	3000 MERIVALE ROAD				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Site County/District: Site Geo Ref Meth: Incident Summary: JDS Uniphase - 618 kg freon to atm Contaminant Qty: 618 kg					
28	19 of 36	ESE/292.2	83.9 / -5.00	JDS Uniphase Corporation 3000 MARIVALE RD., NEPEAN<UNOFFICIAL> Ottawa ON	SPL
Ref No: 5124-5XNQZZ Site No: Incident Dt: 4/2/2004 Year: Incident Cause: Valve / Fitting Leak Or Failure Incident Event: Contaminant Code: 38 Contaminant Name: FREON R-22 (CFC) Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Not Anticipated Nature of Impact: Air Pollution Receiving Medium: Air Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: 4/2/2004 Dt Document Closed: Incident Reason: Site Name: 3000 MARIVALE RD., NEPEAN<UNOFFICIAL> Site County/District: Site Geo Ref Meth: Incident Summary: JDS Uniphase Corp.,340 lbs R22 to ATM Contaminant Qty: 154.54545454545 Kg					
Discharger Report: Material Group: Gases/Particulate Health/Env Conseq: Client Type: Sector Type: Other Agency Involved: Nearest Watercourse: Site Address: Site District Office: Ottawa Site Postal Code: Site Region: Eastern Site Municipality: Ottawa Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Spill to Air Source Type:					

28	20 of 36	ESE/292.2	83.9 / -5.00	Public Work Government Service Canada 3000 Merivale Rd Ottawa ON	CA
Certificate #: 3448-7WDQFM Application Year: 2009 Issue Date: 10/2/2009 Approval Type: Air Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					

28	21 of 36	ESE/292.2	83.9 / -5.00	Minto Commercial Inc. 3000 Merivale Road Ottawa ON	GEN
Generator No: ON9464946 Status: Approval Years: 2009 PO Box No: Country: Choice of Contact:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Contam. Facility: MHSW Facility: SIC Code: SIC Description:	531120			Co Admin: Phone No Admin: Lessors of Non-Residential Buildings (except Mini-Warehouses)	
<u>Detail(s)</u>					
Waste Class: Waste Class Desc:		212		ALIPHATIC SOLVENTS	
Waste Class: Waste Class Desc:		251		OIL SKIMMINGS & SLUDGES	
Waste Class: Waste Class Desc:		252		WASTE OILS & LUBRICANTS	
Waste Class: Waste Class Desc:		263		ORGANIC LABORATORY CHEMICALS	

<u>28</u>	22 of 36	ESE/292.2	83.9 / -5.00	Minto Commercial Inc. 3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON	GEN
Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	ON9464946 2010 531120			PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: Lessors of Non-Residential Buildings (except Mini-Warehouses)	
<u>Detail(s)</u>					
Waste Class: Waste Class Desc:		251		OIL SKIMMINGS & SLUDGES	
Waste Class: Waste Class Desc:		252		WASTE OILS & LUBRICANTS	
Waste Class: Waste Class Desc:		263		ORGANIC LABORATORY CHEMICALS	
Waste Class: Waste Class Desc:		212		ALIPHATIC SOLVENTS	

<u>28</u>	23 of 36	ESE/292.2	83.9 / -5.00	Minto Commercial Inc. 3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON	GEN
Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description:	ON9464946 2011 531120			PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: Lessors of Non-Residential Buildings (except Mini-Warehouses)	

<u>Detail(s)</u>					
Waste Class:		212			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Desc:		ALIPHATIC SOLVENTS			
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
Waste Class:		263			
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			
Waste Class:		251			
Waste Class Desc:		OIL SKIMMINGS & SLUDGES			

28	24 of 36	ESE/292.2	83.9 / -5.00	Minto Commercial Inc. 3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON K2G6N7	GEN
Generator No:	ON9464946			PO Box No:	
Status:				Country:	
Approval Years:	2012			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	531120				
SIC Description:	Lessors of Non-Residential Buildings (except Mini-Warehouses)				

Detail(s)

Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
Waste Class:		263			
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			
Waste Class:		251			
Waste Class Desc:		OIL SKIMMINGS & SLUDGES			
Waste Class:		212			
Waste Class Desc:		ALIPHATIC SOLVENTS			

28	25 of 36	ESE/292.2	83.9 / -5.00	JDS UNIPHASE INC. 3000 Merivale Road Ottawa ON K2G6N7	NPRI
NPRI ID:	8800001566			Org ID:	
Other ID:				Submit Date:	
No Other ID:				Last Modified:	
Track ID:				Contact ID:	
Report ID:				Cont Type:	MED
Report Type:				Contact Title:	
Rpt Type ID:				Cont First Name:	
Report Year:	2004			Cont Last Name:	
Not-Current Rpt?:				Contact Position:	
Yr of Last Filed Rpt:				Contact Fax:	
Fac ID:				Contact Ph.:	
Fac Name:	JDS UNIPHASE			Cont Area Code:	
Fac Address1:				Contact Tel.:	
Fac Address2:				Contact Ext.:	
Fac Postal Zip:				Cont Fax Area Cde:	
Facility Lat:				Contact Fax:	
Facility Long:				Contact Email:	
DLS (Last Filed Rpt):				Latitude:	
Facility DLS:				Longitude:	
Datum:				UTM Zone:	
Facility Cmnts:				UTM Northing:	

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
URL: No of Empl.: 590 Parent Co.: No Parent Co.: Pollut Prev Cmnts: Stacks: No of Stacks: Canadian SIC Code (2 digit): Canadian SIC Code: SIC Code Description: American SIC Code: NAICS Code (2 digit): 31-33 NAICS 2 Description: Manufacturing NAICS Code (4 digit): 3346 NAICS 4 Description: Manufacturing and Reproducing Magnetic and Optical Media NAICS Code (6 digit): 334610 NAICS 6 Description: Manufacturing and Reproducing Magnetic and Optical Media				UTM Easting: Waste Streams: No Streams: Waste Off Sites: No Off Sites: Shutdown: No of Shutdown:	
<u>Substance Release Report</u>					
CAS No: 7446-09-5 Report ID: Rpt Period: 2004 Subst Released: Sulphur dioxide Air: Water: Land: Total Releases: Units: tonnes					
CAS No: 811-97-2 Report ID: Rpt Period: 2004 Subst Released: HFC-134a Hydrofluorocarbon Air: Water: Land: Total Releases: Units: tonnes					
CAS No: NA - M10 Report ID: Rpt Period: 2004 Subst Released: PM2.5 - Particulate Matter <= 2.5 Microns Air: Water: Land: Total Releases: Units: tonnes					
CAS No: 74-82-8 Report ID: Rpt Period: 2004 Subst Released: Methane Air: Water: Land: Total Releases: Units: tonnes					
CAS No: 630-08-0 Report ID: Rpt Period: 2004 Subst Released: Carbon monoxide Air:					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Water:					
Land:					
Total Releases:					
Units:		tonnes			
CAS No:		NA - M09			
Report ID:					
Rpt Period:		2004			
Subst Released:		PM10 - Particulate Matter <= 10 Microns			
Air:					
Water:					
Land:					
Total Releases:					
Units:		tonnes			
CAS No:		10024-97-2			
Report ID:					
Rpt Period:		2004			
Subst Released:		Nitrous oxide			
Air:					
Water:					
Land:					
Total Releases:					
Units:		tonnes			
CAS No:		11104-93-1			
Report ID:					
Rpt Period:		2004			
Subst Released:		Nitrogen oxides (expressed as NO2)			
Air:					
Water:					
Land:					
Total Releases:					
Units:		tonnes			
CAS No:		124-38-9			
Report ID:					
Rpt Period:		2004			
Subst Released:		Carbon dioxide			
Air:					
Water:					
Land:					
Total Releases:					
Units:		tonnes			
CAS No:		NA - M08			
Report ID:					
Rpt Period:		2004			
Subst Released:		PM - Total Particulate Matter			
Air:					
Water:					
Land:					
Total Releases:					
Units:		tonnes			
CAS No:		NA - M16			
Report ID:					
Rpt Period:		2004			
Subst Released:		Volatile Organic Compounds (VOCs)			
Air:					
Water:					
Land:					
Total Releases:					
Units:		tonnes			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
28	26 of 36	ESE/292.2	83.9 / -5.00	Minto Commercial Inc. 3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON	GEN
Generator No:	ON9464946			PO Box No:	
Status:				Country:	
Approval Years:	2013			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:	531120				
SIC Description:	LESSORS OF NON-RESIDENTIAL BUILDINGS (EXCEPT MINI-WAREHOUSES)				
Detail(s)					
Waste Class:	146				
Waste Class Desc:	OTHER SPECIFIED INORGANICS				
Waste Class:	252				
Waste Class Desc:	WASTE OILS & LUBRICANTS				
Waste Class:	212				
Waste Class Desc:	ALIPHATIC SOLVENTS				
Waste Class:	263				
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS				
Waste Class:	251				
Waste Class Desc:	OIL SKIMMINGS & SLUDGES				
Waste Class:	121				
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS				
28	27 of 36	ESE/292.2	83.9 / -5.00	Public Work Government Service Canada 3000 Merivale Rd Ottawa ON K1A 0R2	ECA
Approval No:	3448-7WDQFM			MOE District:	Ottawa
Approval Date:	2009-10-02			City:	
Status:	Approved			Longitude:	-75.705666
Record Type:	ECA			Latitude:	45.294838
Link Source:	IDS			Geometry X:	
SWP Area Name:	Rideau Valley			Geometry Y:	
Approval Type:	ECA-AIR				
Project Type:	AIR				
Business Name:	Public Work Government Service Canada				
Address:	3000 Merivale Rd				
Full Address:					
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6999-7TQP3R-14.pdf				
28	28 of 36	ESE/292.2	83.9 / -5.00	JDS Uniphase Inc. 3000 Merivale Road Nepean ON K2G 5W8	ECA
Approval No:	1464-4VGS5D5			MOE District:	Ottawa
Approval Date:	2001-04-10			City:	
Status:	Approved			Longitude:	-75.705666
Record Type:	ECA			Latitude:	45.294838
Link Source:	IDS			Geometry X:	
SWP Area Name:	Rideau Valley			Geometry Y:	
Approval Type:	ECA-AIR				
Project Type:	AIR				
Business Name:	JDS Uniphase Inc.				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Address:		3000 Merivale Road			
Full Address:					
Full PDF Link:		https://www.accessenvironment.ene.gov.on.ca/instruments/1048-4RST89-14.pdf			
28	29 of 36	ESE/292.2	83.9 / -5.00	JDS Uniphase Corporation 3000 Merivale Road Nepean ON K2G 5W8	ECA
Approval No:		5404-4U4M53		MOE District: Ottawa	
Approval Date:		2001-02-20		City:	
Status:		Approved		Longitude: -75.705666	
Record Type:		ECA		Latitude: 45.294838	
Link Source:		IDS		Geometry X:	
SWP Area Name:		Rideau Valley		Geometry Y:	
Approval Type:		ECA-AIR			
Project Type:		AIR			
Business Name:		JDS Uniphase Corporation			
Address:		3000 Merivale Road			
Full Address:					
Full PDF Link:		https://www.accessenvironment.ene.gov.on.ca/instruments/5821-4T2T9C-14.pdf			
28	30 of 36	ESE/292.2	83.9 / -5.00	JDS Uniphase Inc. 3000 Merivale Road Nepean ON K2G 5W8	ECA
Approval No:		1298-568SSM		MOE District: Ottawa	
Approval Date:		2002-05-13		City:	
Status:		Revoked and/or Replaced		Longitude: -75.705666	
Record Type:		ECA		Latitude: 45.294838	
Link Source:		IDS		Geometry X:	
SWP Area Name:		Rideau Valley		Geometry Y:	
Approval Type:		ECA-AIR			
Project Type:		AIR			
Business Name:		JDS Uniphase Inc.			
Address:		3000 Merivale Road			
Full Address:					
Full PDF Link:		https://www.accessenvironment.ene.gov.on.ca/instruments/5233-53ZKQF-14.pdf			
28	31 of 36	ESE/292.2	83.9 / -5.00	Minto Commercial Inc. 3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON K2G6N7	GEN
Generator No:		ON9464946		PO Box No:	
Status:				Country: Canada	
Approval Years:		2015		Choice of Contact: CO_ADMIN	
Contam. Facility:		No		Co Admin: Steve Maber	
MHSW Facility:		No		Phone No Admin: 613-786-3000 Ext.	
SIC Code:		531120			
SIC Description:		LESSORS OF NON-RESIDENTIAL BUILDINGS (EXCEPT MINI-WAREHOUSES)			
Detail(s)					
Waste Class:		212			
Waste Class Desc:		ALIPHATIC SOLVENTS			
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			
Waste Class:		121			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Desc:		ALKALINE WASTES - HEAVY METALS			
Waste Class:		251			
Waste Class Desc:		OIL SKIMMINGS & SLUDGES			
Waste Class:		263			
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			
Waste Class:		146			
Waste Class Desc:		OTHER SPECIFIED INORGANICS			

28 32 of 36 **ESE/292.2** **83.9 / -5.00** **Minto Commercial Inc.**
3000 Merivale Road 73 Leikin Drive (formerly
3000 Merivale Road)
Ottawa ON K2G6N7 **GEN**

Generator No:	ON9464946	PO Box No:	
Status:		Country:	Canada
Approval Years:	2016	Choice of Contact:	CO_ADMIN
Contam. Facility:	No	Co Admin:	Steve Maber
MHSW Facility:	No	Phone No Admin:	613-786-7942 Ext.
SIC Code:	531120		
SIC Description:	LESSORS OF NON-RESIDENTIAL BUILDINGS (EXCEPT MINI-WAREHOUSES)		

Detail(s)

Waste Class:	146
Waste Class Desc:	OTHER SPECIFIED INORGANICS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	121
Waste Class Desc:	ALKALINE WASTES - HEAVY METALS
Waste Class:	251
Waste Class Desc:	OIL SKIMMINGS & SLUDGES
Waste Class:	252
Waste Class Desc:	WASTE OILS & LUBRICANTS

28 33 of 36 **ESE/292.2** **83.9 / -5.00** **Minto Commercial Inc.**
3000 Merivale Road 73 Leikin Drive (formerly
3000 Merivale Road)
Ottawa ON K2G6N7 **GEN**

Generator No:	ON9464946	PO Box No:	
Status:		Country:	Canada
Approval Years:	2014	Choice of Contact:	CO_ADMIN
Contam. Facility:	No	Co Admin:	Steve Maber
MHSW Facility:	No	Phone No Admin:	613-786-3000 Ext.
SIC Code:	531120		
SIC Description:	LESSORS OF NON-RESIDENTIAL BUILDINGS (EXCEPT MINI-WAREHOUSES)		

Detail(s)

Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	263

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			
Waste Class:		146			
Waste Class Desc:		OTHER SPECIFIED INORGANICS			
Waste Class:		121			
Waste Class Desc:		ALKALINE WASTES - HEAVY METALS			
Waste Class:		251			
Waste Class Desc:		OIL SKIMMINGS & SLUDGES			
Waste Class:		252			
Waste Class Desc:		WASTE OILS & LUBRICANTS			

[28](#) 34 of 36 **ESE/292.2** **83.9 / -5.00** **Minto Commercial Inc.**
3000 Merivale Road 73 Leikin Drive (formerly
3000 Merivale Road)
Ottawa ON K2G6N7 **GEN**

Generator No:	ON9464946	PO Box No:	
Status:	Registered	Country:	Canada
Approval Years:	As of Dec 2018	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No Admin:	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class:	121 C
Waste Class Desc:	Alkaline slutions - containing heavy metals
Waste Class:	146 T
Waste Class Desc:	Other specified inorganic sludges, slurries or solids
Waste Class:	212 L
Waste Class Desc:	Aliphatic solvents and residues
Waste Class:	251 L
Waste Class Desc:	Waste oils/sludges (petroleum based)

[28](#) 35 of 36 **ESE/292.2** **83.9 / -5.00** **Minto Commercial Inc.**
3000 Merivale Road 73 Leikin Drive (formerly
3000 Merivale Road)
Ottawa ON K2G6N7 **GEN**

Generator No:	ON9464946	PO Box No:	
Status:	Registered	Country:	Canada
Approval Years:	As of Jul 2020	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No Admin:	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class:	145 I
Waste Class Desc:	Wastes from the use of pigments, coatings and paints
Waste Class:	251 L
Waste Class Desc:	Waste oils/sludges (petroleum based)
Waste Class:	146 T

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Desc:		Other specified inorganic sludges, slurries or solids			
Waste Class:		212 L			
Waste Class Desc:		Aliphatic solvents and residues			
Waste Class:		121 C			
Waste Class Desc:		Alkaline slutions - containing heavy metals			

28	36 of 36	ESE/292.2	83.9 / -5.00	Minto Commercial Inc. 3000 Merivale Road 73 Leikin Drive (formerly 3000 Merivale Road) Ottawa ON K2G6N7	GEN
Generator No:	ON9464946			PO Box No:	
Status:	Registered			Country:	Canada
Approval Years:	As of Jan 2021			Choice of Contact:	
Contam. Facility:				Co Admin:	
MHSW Facility:				Phone No Admin:	
SIC Code:					
SIC Description:					
Detail(s)					
Waste Class:	251 L				
Waste Class Desc:	Waste oils/sludges (petroleum based)				
Waste Class:	145 I				
Waste Class Desc:	Wastes from the use of pigments, coatings and paints				
Waste Class:	212 L				
Waste Class Desc:	Aliphatic solvents and residues				
Waste Class:	146 T				
Waste Class Desc:	Other specified inorganic sludges, slurries or solids				
Waste Class:	121 C				
Waste Class Desc:	Alkaline slutions - containing heavy metals				

29	1 of 1	ENE/293.6	82.9 / -5.97	lot 19 con A ON	WWIS
Well ID:	1533419			Data Entry Status:	
Construction Date:				Data Src:	1
Primary Water Use:	Domestic			Date Received:	12/17/2002
Sec. Water Use:				Selected Flag:	Yes
Final Well Status:	Water Supply			Abandonment Rec:	
Water Type:				Contractor:	1558
Casing Material:				Form Version:	1
Audit No:	250443			Owner:	
Tag:				Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	019
Well Depth:				Concession:	A
Overburden/Bedrock:				Concession Name:	RF
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1533419.pdf

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Bore Hole Information

Bore Hole ID:	10530166	Elevation:	88.658699
DP2BR:	67	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	r	East83:	444939.3
Code OB Desc:	Bedrock	North83:	5016884
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	10/2/2002	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	lot
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	932881080
Layer:	4
Color:	2
General Color:	GREY
Mat1:	18
Most Common Material:	SANDSTONE
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	67
Formation End Depth:	248
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	932881077
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	05
Most Common Material:	CLAY
Mat2:	
Mat2 Desc:	
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0
Formation End Depth:	12
Formation End Depth UOM:	ft

Overburden and Bedrock

Materials Interval

Formation ID:	932881078
Layer:	2
Color:	2
General Color:	GREY
Mat1:	05
Most Common Material:	CLAY

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		12			
Formation End Depth:		62			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932881079			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		13			
Mat2 Desc:		BOULDERS			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		62			
Formation End Depth:		67			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933230478			
Layer:		1			
Plug From:		0			
Plug To:		69			
Plug Depth UOM:		ft			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		961533419			
Method Construction Code:		4			
Method Construction:		Rotary (Air)			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11078736			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930096914			
Layer:		2			
Material:		4			
Open Hole or Material:		OPEN HOLE			
Depth From:					
Depth To:					
Casing Diameter:		5			
Casing Diameter UOM:		inch			
Casing Depth UOM:		ft			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Construction Record - Casing</u>					
Casing ID:			930096913		
Layer:			1		
Material:			1		
Open Hole or Material:			STEEL		
Depth From:					
Depth To:					
Casing Diameter:			6		
Casing Diameter UOM:			inch		
Casing Depth UOM:			ft		
<u>Results of Well Yield Testing</u>					
Pump Test ID:			991533419		
Pump Set At:					
Static Level:			42		
Final Level After Pumping:			175		
Recommended Pump Depth:			225		
Pumping Rate:			6		
Flowing Rate:					
Recommended Pump Rate:			5		
Levels UOM:			ft		
Rate UOM:			GPM		
Water State After Test Code:			2		
Water State After Test:			CLOUDY		
Pumping Test Method:			1		
Pumping Duration HR:			1		
Pumping Duration MIN:			0		
Flowing:			No		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934664310		
Test Type:			Draw Down		
Test Duration:			45		
Test Level:			222		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934912435		
Test Type:			Draw Down		
Test Duration:			60		
Test Level:			240		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934395030		
Test Type:			Draw Down		
Test Duration:			30		
Test Level:			200		
Test Level UOM:			ft		
<u>Draw Down & Recovery</u>					
Pump Test Detail ID:			934120176		
Test Type:			Draw Down		
Test Duration:			15		
Test Level:			175		
Test Level UOM:			ft		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Water Details

Water ID: 934022887
Layer: 2
Kind Code: 5
Kind: Not stated
Water Found Depth: 239
Water Found Depth UOM: ft

Water Details

Water ID: 934022886
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 132
Water Found Depth UOM: ft

30	1 of 2	ENE/296.7	82.9 / -5.97	lot 19 con A ON	WWIS
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Well ID: 1527674 Construction Date: Primary Water Use: Not Used Sec. Water Use: Final Well Status: Abandoned-Supply Water Type: Casing Material: Audit No: 143948 Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:	Data Entry Status: Data Src: 1 Date Received: 2/7/1994 Selected Flag: Yes Abandonment Rec: Contractor: 6841 Form Version: 1 Owner: Street Name: County: OTTAWA Municipality: NEPEAN TOWNSHIP Site Info: Lot: 019 Concession: A Concession Name: RF Easting NAD83: Northing NAD83: Zone: UTM Reliability:
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PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1527674.pdf

Bore Hole Information

Bore Hole ID: 10049300 DP2BR: Spatial Status: Code OB: - Code OB Desc: No formation data Open Hole: Cluster Kind: Date Completed: 2/1/1994 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	Elevation: 88.610839 Elevrc: Zone: 18 East83: 444942.7 North83: 5016884 Org CS: UTMRC: 9 UTMRC Desc: unknown UTM Location Method: lot
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Annular Space/Abandonment
Sealing Record

Plug ID: 933112636
 Layer: 2
 Plug From: 5
 Plug To: 28
 Plug Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933112635
 Layer: 1
 Plug From: 0
 Plug To: 5
 Plug Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933112637
 Layer: 3
 Plug From: 28
 Plug To: 33
 Plug Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961527674
 Method Construction Code: 0
 Method Construction: Not Known
 Other Method Construction:

Pipe Information

Pipe ID: 10597870
 Casing No: 1
 Comment:
 Alt Name:

30 2 of 2 **ENE/296.7** **82.9 / -5.97** **lot 19 con A
ON** **WWIS**

Well ID: 1527675	Data Entry Status:
Construction Date:	Data Src: 1
Primary Water Use: Not Used	Date Received: 2/7/1994
Sec. Water Use:	Selected Flag: Yes
Final Well Status: Abandoned-Supply	Abandonment Rec:
Water Type:	Contractor: 6841
Casing Material:	Form Version: 1
Audit No: 143949	Owner:
Tag:	Street Name:
Construction Method:	County: OTTAWA
Elevation (m):	Municipality: NEPEAN TOWNSHIP
Elevation Reliability:	Site Info:
Depth to Bedrock:	Lot: 019
Well Depth:	Concession: A
Overburden/Bedrock:	Concession Name: RF

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/152\1527675.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:	10049301			Elevation:	88.610839
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:	—			East83:	444942.7
Code OB Desc:	No formation data			North83:	5016884
Open Hole:				Org CS:	
Cluster Kind:				UTMRC:	9
Date Completed:	2/1/1994			UTMRC Desc:	unknown UTM
Remarks:				Location Method:	lot
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:	933112639				
Layer:	2				
Plug From:	5				
Plug To:	41				
Plug Depth UOM:	ft				
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:	933112640				
Layer:	3				
Plug From:	41				
Plug To:	46				
Plug Depth UOM:	ft				
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:	933112638				
Layer:	1				
Plug From:	0				
Plug To:	5				
Plug Depth UOM:	ft				
<u>Method of Construction & Well Use</u>					
Method Construction ID:	961527675				
Method Construction Code:	0				
Method Construction:	Not Known				
Other Method Construction:					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
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Pipe Information

Pipe ID:	10597871
Casing No:	1
Comment:	
Alt Name:	

Unplottable Summary

Total: **82** Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	MID CANADA CONSTRUCTION LTD.	ACCESS RD. W. OF MERIVALE RD.	NEPEAN CITY ON	
CA	JAMES STEWART	MERIVALE RD. STEWART FUELS	NEPEAN CITY ON	
CA	R.M. OF OTTAWA-CARLETON	MERIVALE RD. RECONT. WOODFIELD	NEPEAN CITY ON	
CA	MINTO CONSTRUCTION	MERIVALE BYPASS	NEPEAN CITY ON	
CA	J. PEREZ CONSTRUCTION LTD.	MERIVALE RD.	NEPEAN CITY ON	
CA	City of Ottawa	Merivale Road between Island Park Crescent and Carling Avenue	Ottawa ON	
CA	Urbandale Corporation	Part of Lot 20, Concession 1	Ottawa ON	
CA	Minto Developments Inc.	Lot 19, Concession 1	Ottawa ON	
CA	Urbandale Corporation	Part of Lot 20, Concession 1	Ottawa ON	
CA	Minto Developments Inc.	Lot 19, Concession 1	Ottawa ON	
CA	TOYS 'R' US LTD.	LINK RD. MERIVALE RD.	NEPEAN CITY ON	
CA	SHELL CANADA PRODUCTS LIMITED	MERIVALE RD., BULK TANK FARM	NEPEAN CITY ON	
CA	NEPEAN CITY - LOT 17, CONC. 1/HWY. #16	COLLECTOR RD./MERIVALE RD.	NEPEAN CITY ON	
CA	JDS FITEL INC.	LEIKIN DR., PT.LOTS 17&18, SWM	NEPEAN ON	
CA	MINTO CONSTRUCTION LTD.	MERIVALE RD.	NEPEAN CITY ON	
CA	Woodroffe Classics Phase II	Lot 17, Concession 1	Nepean ON	
CA		Pt. of North half Lot 17, Conc. 1 (Rideau Front)	Nepean ON	

CA	Woodroffe Classics Phase II	Lot 17, Concession 1	Nepean ON	
CA		Pt. of North half Lot 17, Conc. 1 (Rideau Front)	Nepean ON	
CA		Merivale Road	Nepean ON	
CA		Merivale Road	Nepean ON	
CA	Davidson Heights	Lot 17, Concession 1	Nepean ON	
CA	Davidson Heights	Lot 17, Concession 1	Nepean ON	
CA	Davidson Heights	Lot 17, Concession 1	Nepean ON	
CA	City of Nepean	MERIVALE RD./S.W.MGT	NEPEAN CITY ON	
CA	JAMES STEWART	MERIVALE RD.	NEPEAN CITY ON	
CA	MR. G. PASQUA HELMER STRANKS COLE ARCHIT	K-MART PLAZA, MERIVALE ROAD	NEPEAN CITY ON	
CA	TOYS 'R' US LTD. 3-1079-89	LINK RD. MERIVALE RD.	NEPEAN CITY ON	
CA	CONSUMERS GAS COMPANY LIMITED	PT.LOT 18/CONC.1, ST.'B'(SWM)_	NEPEAN CITY ON	
CA	PETRO CANADA PRODUCTS, CENTRAL REGION BU	PT.LOT 26/CON.'A'.MERIVALE RD.	NEPEAN ON	
CA	MINTO CONSTRUCTION LTD.	MERIVALE RD. EAST SIDE	NEPEAN CITY ON	
CA	City of Ottawa	Works within an easement adjacent to Merivale Rd	Ottawa ON	
EBR	JDS Fitel Inc.	Bldg.C NEPEAN	ON	
ECA	Minto Developments Inc.	Lot 19, Concession 1	Ottawa ON	K1R 7Y2
ECA	Minto Developments Inc.	Lot 19, Concession 1	Ottawa ON	K1R 7Y2
ECA	Minto Developments Inc.	Lot 19, Concession 1	Ottawa ON	K1R 7Y2
GEN	Dalcon	Central Experimental Farm, Prince of Whales Drive	Ottawa ON	K1M 0M3
GEN	PETRO-CANADA PRODUCTS	OTTAWA TERMINAL - GULF MERIVALE ROAD	OTTAWA ON	K2C 3G1
GEN	HARZENA HOLDING LTD.	MERIVALE RD. FARM, LOT 19 RF, CONC. 1 C/O UNIT 22, 780 BASELINE ROAD	OTTAWA ON	K2C 3V8
GEN	HARZENA HOLDING LTD.	MERIVALE ROAD FARM LOT 19 RF, CONC. 1	NEPEAN ON	K2C 3H1

GEN	HARZENA HOLDING LIMITED	MERIVALE ROAD FARM LOT 19 RF, CONCESSION 1	NEPEAN ON	K2C 3H1
GEN	HARZENA HOLDING LTD. 19-383	MERIVALE RD. FARM, LOT 19 RF, CONC. 1 C/O UNIT 22, 780 BASELINE ROAD	OTTAWA ON	K2C 3V8
GEN	National Capital Commission	Parking Lot 19 P19	Ottawa ON	K1P1C7
GEN	National Capital Commission	Parking Lot 19 P19	Ottawa ON	K1P1C7
GEN	National Capital Commission	Parking Lot 19 P19	Ottawa ON	K1P1C7
GEN	7770251 CANADA INC	MERIVALE ROAD	OTTAWA ON	
GEN	National Capital Commission	Parking Lot 19 P19	Ottawa ON	K1P1C7
GEN	National Capital Commission	Parking Lot 19 P19	Ottawa ON	K1P1C7
GEN	National Capital Commission	Parking Lot 19 P19	Ottawa ON	K1P1C7
GEN	HARZENA HOLDING LTD.	MERIVALE RD. FARM LOT 19 RF, CONC. 1__	NEPEAN ON	K2C 3H1
HINC		OLD HIGHWAY 17	OTTAWA ON	
NPCB	WILLIAMS OPERATING CORPORATION	HEMLO GOLD FIELD WILLIAMS MINE SITE HWY 17	ON	P0T 2E0
PINC		Prince of Whales Drive (Bldg 74, Experimental Farm), Ottawa	ON	
PRT	SHELL CANADA PRODUCTS LTD	MERIVALE RD	OTTAWA ON	
SPL	CONSTRUCTION SITE	MISSISSIPPI BRIDGE CONST. SITE, 300 M WEST OF HWY 17, 3.5 KM N OF ANTRIM (N.O. S.)	OTTAWA CITY ON	
SPL	CANADIAN NATIONAL RAILWAY	CN RAILLINE FROM BELLS CORNERS TO MERIVALE ROAD. TRAIN	NEPEAN CITY ON	
SPL	CRAWFORD TRANSPORT	ON HWY. 17 AT THE PLACE D'ORLEANS ABOUT 5 MI. EAST OF OTTAWA MOTOR VEHICLE (OPERATING FLUID)	OTTAWA-CARLETON R. M. ON	
SPL	ONTARIO HYDRO	MERIVALE RD TRANSFORMER STATION TRANSFORMER	NEPEAN CITY ON	
SPL		Hwy 17 where crosses South Indian Creek (Limoges Casselman Construction Site) <UNOFFICIAL>	Ottawa ON	
SPL	City of Ottawa	Merivale Rd Southbound, just before Meadowlands	Ottawa ON	
SPL	City of Ottawa	Prince of Whales Drive <UNOFFICIAL>	Ottawa ON	

WWIS	lot 17	ON
WWIS	HERON 1670 lot 20	ON
WWIS	lot 18	ON
WWIS	lot 18	ON
WWIS	lot 18	ON
WWIS	lot 18	ON
WWIS	lot 18	ON
WWIS	lot 18	ON
WWIS	lot 18	ON
WWIS	lot 18	ON
WWIS	lot 18	ON
WWIS	lot 18	ON
WWIS	lot 18	ON
WWIS	lot 18	ON
WWIS	lot 20	ON
WWIS	lot 20 con A	ON
WWIS	lot 18	ON
WWIS	lot 19	ON
WWIS	lot 18	ON
WWIS	lot 17	ON
WWIS	lot 18	ON
WWIS	lot 20 con A	ON

Unplottable Report

Site: MID CANADA CONSTRUCTION LTD.
ACESS RD. W. OF MERIVALE RD. NEPEAN CITY ON

Database:
CA

Certificate #: 3-0198-89-
Application Year: 89
Issue Date: 2/17/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: JAMES STEWART
MERIVALE RD. STEWART FUELS NEPEAN CITY ON

Database:
CA

Certificate #: 3-1845-88-
Application Year: 88
Issue Date: 10/6/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: R.M. OF OTTAWA-CARLETON
MERIVALE RD. RECONT. WOODFIELD NEPEAN CITY ON

Database:
CA

Certificate #: 3-0317-88-
Application Year: 88
Issue Date: 3/17/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: MINTO CONSTRUCTION
MERIVALE BYPASS NEPEAN CITY ON

Database:
CA

Certificate #: 3-0631-87-

Application Year: 87
Issue Date: 5/4/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **J. PEREZ CONSTRUCTION LTD.**
MERIVALE RD. NEPEAN CITY ON

Database:
CA

Certificate #: 3-1266-86-
Application Year: 86
Issue Date: 9/10/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **City of Ottawa**
Merivale Road between Island Park Crescent and Carling Avenue Ottawa ON

Database:
CA

Certificate #: 0496-8FQKFV
Application Year: 2011
Issue Date: 5/19/2011
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: **Urbandale Corporation**
Part of Lot 20, Concession 1 Ottawa ON

Database:
CA

Certificate #: 6191-5PPQ63
Application Year: 2003
Issue Date: 7/25/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *Minto Developments Inc.*
Lot 19, Concession 1 Ottawa ON

Database:
CA

Certificate #: 6111-5L8MWE
Application Year: 2003
Issue Date: 4/3/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *Urbandale Corporation*
Part of Lot 20, Concession 1 Ottawa ON

Database:
CA

Certificate #: 5155-667MFQ
Application Year: 2004
Issue Date: 11/1/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *Minto Developments Inc.*
Lot 19, Concession 1 Ottawa ON

Database:
CA

Certificate #: 1915-5L8Q54
Application Year: 2003
Issue Date: 5/7/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *TOYS 'R' US LTD.*
LINK RD. MERIVALE RD. NEPEAN CITY ON

Database:
CA

Certificate #: 7-0909-89-
Application Year: 89
Issue Date: 6/14/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:

Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: SHELL CANADA PRODUCTS LIMITED
MERIVALE RD., BULK TANK FARM NEPEAN CITY ON

Database:
CA

Certificate #: 4-0099-91-
Application Year: 91
Issue Date: 11/14/1991
Approval Type: Industrial wastewater
Status: Cancelled
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: MODIFY OIL/WATER SEPARATOR
Contaminants:
Emission Control:

Site: NEPEAN CITY - LOT 17, CONC. 1/HWY. #16
COLLECTOR RD./MERIVALE RD. NEPEAN CITY ON

Database:
CA

Certificate #: 7-1388-91-
Application Year: 91
Issue Date: 11/14/1991
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: JDS FITEL INC.
LEIKIN DR., PT.LOTS 17&18, SWM NEPEAN ON

Database:
CA

Certificate #: 3-0049-98-
Application Year: 98
Issue Date: 4/16/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: MINTO CONSTRUCTION LTD.
MERIVALE RD. NEPEAN CITY ON

Database:
CA

Certificate #: 3-0874-85-006
Application Year: 85

Issue Date: 8/14/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *Woodroffe Classics Phase II*
Lot 17, Concession 1 Nepean ON

Database:
[CA](#)

Certificate #: 0325-4RGRHM
Application Year: 00
Issue Date: 12/8/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Richcraft Homes Ltd.
Client Address: 201-2280 St. Laurent Blvd.
Client City: Ottawa
Client Postal Code: K1G 4K1
Project Description: Storm and sanitary sewer construction on Maplestand Way, Sachs Forest Place, Knowlton Drive and Ash Valley Drive.
Contaminants:
Emission Control:

Site: *Pt. of North half Lot 17, Conc. 1 (Rideau Front) Nepean ON*

Database:
[CA](#)

Certificate #: 5441-4JYL3B
Application Year: 00
Issue Date: 5/8/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Richcraft Homes Ltd.
Client Address: 201-2280 St. Laurent Blvd.
Client City: Ottawa
Client Postal Code: K1G 4K1
Project Description: Construction of Storm and Sanitary Sewers along Maple Stand and Oak Grove Street
Contaminants:
Emission Control:

Site: *Woodroffe Classics Phase II*
Lot 17, Concession 1 Nepean ON

Database:
[CA](#)

Certificate #: 5204-4RGRNN
Application Year: 00
Issue Date: 12/1/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Richcraft Homes Ltd.
Client Address: 201-2280 St. Laurent Blvd.
Client City: Ottawa
Client Postal Code: K1G 4K1
Project Description: watermains to be constructed on Maplestand Way, Sachs Forest Place, Mountain Ash Drive, Knowlton Drive and Ash Valley Drive.
Contaminants:
Emission Control:

Site: Pt. of North half Lot 17, Conc. 1 (Rideau Front) Nepean ON

Database:
CA

Certificate #: 4431-4JYLQ7
Application Year: 00
Issue Date: 5/8/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Richcraft Homes Ltd.
Client Address: 201-2280 St. Laurent Blvd.
Client City: Ottawa
Client Postal Code: K1G 4K1
Project Description: Construction of a Watermain along Stoneway Drive, Maple Stand and Oak Grove Street
Contaminants:
Emission Control:

Site: Merivale Road Nepean ON

Database:
CA

Certificate #: 6408-4PJHR7
Application Year: 00
Issue Date: 9/27/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Ottawa-Carleton
Client Address: 111 Lisgar Street
Client City: Ottawa
Client Postal Code: K2P 2L7
Project Description: Installation of watermains and appurtenances in Merivale Road from Amberwood Crescent to approximately 100 m north of Fallowfield Road.
Contaminants:
Emission Control:

Site: Merivale Road Nepean ON

Database:
CA

Certificate #: 0030-4N8JQX
Application Year: 00
Issue Date: 8/17/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Ottawa-Carleton
Client Address: 111 Lisgar Street
Client City: Ottawa
Client Postal Code: K2P 2L7
Project Description: Installation of watermains on Merivale Road, Boyce Street
Contaminants:
Emission Control:

Site: Davidson Heights
Lot 17, Concession 1 Nepean ON

Database:
CA

Certificate #: 5760-4QTHQV
Application Year: 00
Issue Date: 11/6/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval

Client Name: Holzner Homes (1995) Ltd.
Client Address: 1300 Main St., Box 149
Client City: Stittsville
Client Postal Code: K2S 1A2
Project Description: Sanitary sewers to be constructed in the Waterview Subdivision, on Holzner Way and Baroness Drive
Contaminants:
Emission Control:

Site: Davidson Heights
Lot 17, Concession 1 Nepean ON

Database:
CA

Certificate #: 6844-4SPJQT
Application Year: 01
Issue Date: 1/8/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Holzner Homes (1995) Ltd.
Client Address: 1300 Main St., Box 149
Client City: Stittsville
Client Postal Code: K2S 1A2
Project Description: Storm sewers to be constructed on Holzner Way and Baroness Drive in the City of Nepean.
Contaminants:
Emission Control:

Site: Davidson Heights
Lot 17, Concession 1 Nepean ON

Database:
CA

Certificate #: 0357-4QTHHM
Application Year: 00
Issue Date: 11/6/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Holzner Homes (1995) Ltd.
Client Address: 1300 Main St., Box 149
Client City: Stittsville
Client Postal Code: K2S 1A2
Project Description: Watermains to be constructed on Holzner Way and Baroness Drive
Contaminants:
Emission Control:

Site: City of Nepean
MERIVALE RD./S.W.MGT NEPEAN CITY ON

Database:
CA

Certificate #: 3-1378-92-
Application Year: 92
Issue Date: 11/30/1992
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: JAMES STEWART
MERIVALE RD. NEPEAN CITY ON

Database:
CA

Certificate #: 7-1585-88-
Application Year: 88
Issue Date: 10/6/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: MR. G. PASQUA HELMER STRANKS COLE ARCHIT
K-MART PLAZA, MERIVALE ROAD NEPEAN CITY ON

Database:
CA

Certificate #: 8-4088-89-
Application Year: 89
Issue Date: 8/17/1989
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: RESTAURANT EXHAUST
Contaminants:
Emission Control:

Site: TOYS 'R' US LTD. 3-1079-89
LINK RD. MERIVALE RD. NEPEAN CITY ON

Database:
CA

Certificate #: 3-1078-89-
Application Year: 89
Issue Date: 6/14/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: CONSUMERS GAS COMPANY LIMITED
PT.LOT 18/CONC.1, ST.'B'(SWM)_ NEPEAN CITY ON

Database:
CA

Certificate #: 3-1150-95-
Application Year: 95
Issue Date: 9/8/1995
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *PETRO CANADA PRODUCTS, CENTRAL REGION BU
PT.LOT 26/CON.'A'.MERIVALE RD. NEPEAN ON*

Database:
CA

Certificate #: 4-0059-98-
Application Year: 98
Issue Date: 7/29/1998
Approval Type: Industrial wastewater
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: COALESCING OIL/WATER SEPARATOR
Contaminants:
Emission Control:

Site: *MINTO CONSTRUCTION LTD.
MERIVALE RD. EAST SIDE NEPEAN CITY ON*

Database:
CA

Certificate #: 7-0594-85-006
Application Year: 85
Issue Date: 7/25/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *City of Ottawa
Works within an easement adjacent to Merivale Rd Ottawa ON*

Database:
CA

Certificate #: 0702-82CL4A
Application Year: 2010
Issue Date: 2/8/2010
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: *JDS Fitel Inc.
Bldg.C NEPEAN ON*

Database:
EBR

EBR Registry No: IA8E0293
Ministry Ref No: 8403598 19980226
Notice Type: Instrument Decision
Notice Stage:
Notice Date: April 06, 1998
Proposal Date: March 04, 1998
Year: 1998
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: JDS Fitel Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 570 West Hunt Club Road, Nepean Ontario, K2G 5W8
Comment Period:
URL:

Site Location Details:

Bldg.C NEPEAN

Site: **Minto Developments Inc.**
Lot 19, Concession 1 Ottawa ON K1R 7Y2

Database:
ECA

Approval No: 6111-5L8MWE
Approval Date: 2003-04-03
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Developments Inc.
Address: Lot 19, Concession 1
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/5577-5KZSLL-14.pdf>

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: **Minto Developments Inc.**
Lot 19, Concession 1 Ottawa ON K1R 7Y2

Database:
ECA

Approval No: 7864-5L2TU4
Approval Date: 2003-04-14
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-Municipal and Private Water Works
Project Type: Municipal and Private Water Works
Business Name: Minto Developments Inc.
Address: Lot 19, Concession 1
Full Address:
Full PDF Link:

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: **Minto Developments Inc.**
Lot 19, Concession 1 Ottawa ON K1R 7Y2

Database:
ECA

Approval No: 1915-5L8Q54
Approval Date: 2003-05-07
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Minto Developments Inc.
Address: Lot 19, Concession 1
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/6742-5L2HYM-14.pdf>

MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: *Dalcon*
Central Experimental Farm, Prince of Whales Drive Ottawa ON K1M 0M3

Database:
GEN

Generator No: ON9858804
Status:
Approval Years: 02,03,04
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Site: *PETRO-CANADA PRODUCTS*
OTTAWA TERMINAL - GULF MERIVALE ROAD OTTAWA ON K2C 3G1

Database:
GEN

Generator No: ON0031027
Status:
Approval Years: 98
Contam. Facility:
MHSW Facility:
SIC Code: 3611
SIC Description: REFINED PETRO. PROD.

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Site: *HARZENA HOLDING LTD.*
MERIVALE RD. FARM, LOT 19 RF, CONC. 1 C/O UNIT 22, 780 BASELINE ROAD OTTAWA ON K2C 3V8

Database:
GEN

Generator No: ON1124500
Status:
Approval Years: 88,89
Contam. Facility:
MHSW Facility:
SIC Code: 0000
SIC Description: *** NOT DEFINED ***

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Site: *HARZENA HOLDING LTD.*
MERIVALE ROAD FARM LOT 19 RF, CONC. 1 NEPEAN ON K2C 3H1

Database:
GEN

Generator No: ON1124500
Status:
Approval Years: 98
Contam. Facility:
MHSW Facility:
SIC Code: 0111
SIC Description: DAIRY FARMS

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213

Waste Class Desc: PETROLEUM DISTILLATES
Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site: HARZENA HOLDING LIMITED
MERIVALE ROAD FARM LOT 19 RF, CONCESSION 1 NEPEAN ON K2C 3H1

Database:
GEN

Generator No:	ON1124500	PO Box No:	
Status:		Country:	
Approval Years:	99,00,01	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No Admin:	
SIC Code:	0111		
SIC Description:	DAIRY FARMS		

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES
Waste Class: 252
Waste Class Desc: WASTE OILS & LUBRICANTS

Site: HARZENA HOLDING LTD. 19-383
MERIVALE RD. FARM, LOT 19 RF, CONC. 1 C/O UNIT 22, 780 BASELINE ROAD OTTAWA ON K2C 3V8

Database:
GEN

Generator No:	ON1124500	PO Box No:	
Status:		Country:	
Approval Years:	94,95,96	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No Admin:	
SIC Code:	0111		
SIC Description:	DAIRY FARMS		

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Site: National Capital Commission
Parking Lot 19 P19 Ottawa ON K1P1C7

Database:
GEN

Generator No:	ON7977721	PO Box No:	
Status:	Registered	Country:	Canada
Approval Years:	As of Jan 2021	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No Admin:	
SIC Code:			
SIC Description:			

Detail(s)

Waste Class: 221 L
Waste Class Desc: Light fuels

Site: National Capital Commission
Parking Lot 19 P19 Ottawa ON K1P1C7

Database:
GEN

Generator No:	ON7977721	PO Box No:	
Status:	Registered	Country:	Canada
Approval Years:	As of Oct 2019	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No Admin:	

SIC Code:
SIC Description:

Detail(s)

Waste Class: 221 L
Waste Class Desc: Light fuels

Site: National Capital Commission
Parking Lot 19 P19 Ottawa ON K1P1C7

Database:
GEN

Generator No:	ON7977721	PO Box No:	
Status:		Country:	Canada
Approval Years:	2015	Choice of Contact:	CO_OFFICIAL
Contam. Facility:	No	Co Admin:	
MHSW Facility:	No	Phone No Admin:	
SIC Code:	911910		
SIC Description:	911910		

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Site: 7770251 CANADA INC
MERIVALE ROAD OTTAWA ON

Database:
GEN

Generator No:	ON6163455	PO Box No:	
Status:		Country:	
Approval Years:	2013	Choice of Contact:	
Contam. Facility:		Co Admin:	
MHSW Facility:		Phone No Admin:	
SIC Code:	812320		
SIC Description:	DRY CLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPERATED)		

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

Site: National Capital Commission
Parking Lot 19 P19 Ottawa ON K1P1C7

Database:
GEN

Generator No:	ON7977721	PO Box No:	
Status:		Country:	Canada
Approval Years:	2016	Choice of Contact:	CO_OFFICIAL
Contam. Facility:	No	Co Admin:	
MHSW Facility:	No	Phone No Admin:	
SIC Code:	911910		
SIC Description:	911910		

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Site: National Capital Commission
Parking Lot 19 P19 Ottawa ON K1P1C7

Database:
GEN

Generator No:	ON7977721	PO Box No:	
Status:		Country:	Canada
Approval Years:	2014	Choice of Contact:	CO_OFFICIAL
Contam. Facility:	No	Co Admin:	

MHSW Facility: No
SIC Code: 911910
SIC Description: 911910

Phone No Admin:

Detail(s)

Waste Class: 221
Waste Class Desc: LIGHT FUELS

Site: **National Capital Commission**
Parking Lot 19 P19 Ottawa ON K1P1C7

Database:
GEN

Generator No: ON7977721
Status: Registered
Approval Years: As of Dec 2018
Contam. Facility:
MHSW Facility:
SIC Code:
SIC Description:

PO Box No:
Country: Canada
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 221 L
Waste Class Desc: Light fuels

Site: **HARZENA HOLDING LTD.**
MERIVALE RD. FARM LOT 19 RF, CONC. 1__ NEPEAN ON K2C 3H1

Database:
GEN

Generator No: ON1124500
Status:
Approval Years: 92,93,97
Contam. Facility:
MHSW Facility:
SIC Code: 0111
SIC Description: DAIRY FARMS

PO Box No:
Country:
Choice of Contact:
Co Admin:
Phone No Admin:

Detail(s)

Waste Class: 213
Waste Class Desc: PETROLEUM DISTILLATES

Site: **OLD HIGHWAY 17 OTTAWA ON**

Database:
HINC

External File Num: FS INC 0708-04538
Fuel Occurrence Type:
Date of Occurrence:
Fuel Type Involved:
Status Desc: Completed - No Action Required
Job Type Desc: Incident/Near-Miss Occurrence (FS)
Oper. Type Involved:
Service Interruptions:
Property Damage:
Fuel Life Cycle Stage:
Root Cause:
Reported Details: Facility type is not specified. Report of waste oil spill. Non-mandated.
Fuel Category: Unknown
Occurrence Type: Incident
Affiliation: Member of the General Public
County Name: Ottawa
Approx. Quant. Rel:
Nearby body of water:
Enter Drainage Syst.:
Approx. Quant. Unit:

Environmental Impact:

Site: WILLIAMS OPERATING CORPORATION
HEMLO GOLD FIELD WILLIAMS MINE SITE HWY 17 ON P0T 2E0

Database:
NPCB

Company Code: F1510
Industry: UNDEFINED
Site Status:
Transaction Date:
Inspection Date:

--Details--

Label: F151004
Serial No.:
PCB Type/Code: OTHER WASTE/LOW
Location:
Item/State: CTNR DEBRIS. ETC/FULL
No. of Items: 1
Manufacturer:
Status: STORED FOR DISPOSAL
Contents: 2565 KG

Label: F151002
Serial No.:
PCB Type/Code: MINERAL OIL/UNKNOWN
Location:
Item/State: BARREL MINERAL OIL/FULL
No. of Items: 1
Manufacturer:
Status: STORED FOR DISPOSAL
Contents: 136 KG

Label: F151000
Serial No.:
PCB Type/Code: ASKAREL/ASKAREL
Location:
Item/State: CAPACITOR/FULL
No. of Items: 2
Manufacturer:
Status: STORED FOR DISPOSAL
Contents: 100 KG

Label: F151001
Serial No.:
PCB Type/Code: OTHER WASTE/HIGH
Location:
Item/State: CTNR DEBRIS. ETC/FULL
No. of Items: 1
Manufacturer:
Status: STORED FOR DISPOSAL
Contents: 2778 KG

Label: F151003
Serial No.:
PCB Type/Code: OTHER WASTE/LOW
Location:
Item/State: CTNR SOIL/GRAVEL/FULL
No. of Items: 1
Manufacturer:
Status: STORED FOR DISPOSAL
Contents: 70 KG

Site: Prince of Whales Drive (Bldg 74, Experimental Farm), Ottawa ON

Database:
PINC

Incident ID:	2661478	Fuel Category:	Natural Gas
Incident No:	505140	Health Impact:	No
Incident Reported Dt:		Environment Impact:	No
Type:	FS-Pipeline Incident	Property Damage:	Yes
Status Code:	Pipeline Damage Reason Est	Service Interrupt:	Yes
Customer Acct Name:		Enforce Policy:	No
Incident Address:		Public Relation:	No
Tank Status:	RC Established	Pipeline System:	
Task No:	3177548	Depth:	28
Spills Action Centre:		Pipe Material:	Plastic
Fuel Type:	Natural Gas	PSIG:	40
Fuel Occurrence Tp:	Pipeline Strike	Attribute Category:	FS-Perform P-line Inc Invest
Date of Occurrence:	11/5/2010 0:00	Regulator Location:	Outside
Occurrence Start Dt:	2011/05/06	Method Details:	E-mail
Operation Type:	Construction Site (pipeline strike)		
Pipeline Type:	Service / Riser Distribution Pipeline		
Regulator Type:	Service Regulator (up to 60 psi intake)		
Summary:	Prince of Whales Drive (Bldg 74, Experimental Farm), Ottawa - 1" Pipeline Hit		
Reported By:	Stiles, Jeff - Enbridge		
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)		
Occurrence Desc:	large rock damaged gas plant.		
Damage Reason:	Non-Mandated		
Notes:	accidental damage large rock		

Site: SHELL CANADA PRODUCTS LTD
MERIVALE RD OTTAWA ON

Database:
PRT

Location ID: 11000
Type: retail
Expiry Date: 1995-12-31
Capacity (L): 8280000
Licence #: 0022412017

Site: CONSTRUCTION SITE
MISSISSIPPI BRIDGE CONST. SITE, 300 M WEST OF HWY 17, 3.5 KM N OF ANTRIM (N.O.S.) OTTAWA CITY ON

Database:
SPL

Ref No:	192858	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	1/3/2001	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	CONTAINER OVERFLOW	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	Not Anticipated	Site Municipality:	20107
Nature of Impact:	Water course or lake	Site Lot:	
Receiving Medium:	Land	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	1/3/2001	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	UNKNOWN	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	DUFFERIN CONSTRUCTION- 40-60 L SILTY WATER OVER-FLOWED SILT FENCE,CONT'D.		
Contaminant Qty:			

Site: CANADIAN NATIONAL RAILWAY
CN RAILLINE FROM BELLS CORNERS TO MERIVALE ROAD. TRAIN NEPEAN CITY ON

Database:
SPL

Ref No: 91652
Site No:
Incident Dt: 9/25/1993
Year:
Incident Cause: OTHER CONTAINER LEAK
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: POSSIBLE
Nature of Impact: Soil contamination
Receiving Medium: LAND / AIR
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/25/1993
Dt Document Closed:
Incident Reason: UNKNOWN
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: CANADIAN NATIONAL RAILWAYFIRE AND DIESEL SPILL TO RAIL LINE.
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 20104
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: CRAWFORD TRANSPORT
 ON HWY. 17 AT THE PLACE D'ORLEANS ABOUT 5 MI. EAST OF OTTAWA MOTOR VEHICLE (OPERATING FLUID)
 OTTAWA-CARLETON R.M. ON **Database:**
SPL

Ref No: 68430
Site No:
Incident Dt: 3/26/1992
Year:
Incident Cause: CONTAINER OVERFLOW
Incident Event:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: NOT ANTICIPATED
Nature of Impact: Other
Receiving Medium: LAND
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 3/26/1992
Dt Document Closed:
Incident Reason: OTHER
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: P.P. CRAWFORD TRANSPORT - 450 L OF LIQUID TAR TO ROAD FROM TANK TRUCK.
Contaminant Qty:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office:
Site Postal Code:
Site Region:
Site Municipality: 20000
Site Lot:
Site Conc:
Northing:
Easting: MTO
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: ONTARIO HYDRO
 MERIVALE RD TRANSFORMER STATION TRANSFORMER NEPEAN CITY ON **Database:**
SPL

Ref No: 5847
Site No:
Incident Dt: 6/29/1988
Year:
Incident Cause: COOLING SYSTEM LEAK
Incident Event:

Discharger Report:
Material Group:
Health/Env Conseq:
Client Type:
Sector Type:
Agency Involved:

Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:		Site Municipality:	20104
Nature of Impact:		Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	6/29/1988	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	EQUIPMENT FAILURE	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	ONT HYDRO - 10 L PYRANOL TO GROUND AT TRANSFORMER STATION.		
Contaminant Qty:			

Site: Hwy 17 where crosses South Indian Creek (Limoges Casselman Construction Site)<UNOFFICIAL> Ottawa ON **Database:** SPL

Ref No:	6723-75LPCT	Discharger Report:	
Site No:		Material Group:	Oil
Incident Dt:		Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:		Sector Type:	Other
Incident Event:		Agency Involved:	
Contaminant Code:	15	Nearest Watercourse:	
Contaminant Name:	HYDRAULIC OIL	Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	Confirmed	Site Municipality:	Ottawa
Nature of Impact:	Surface Water Pollution	Site Lot:	
Receiving Medium:	Water	Site Conc:	
Receiving Env:		Northing:	
MOE Response:	No Field Response	Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	7/30/2007	Site Map Datum:	
Dt Document Closed:	8/30/2007	SAC Action Class:	
Incident Reason:		Source Type:	
Site Name:	Hwy 17 where crosses South Indian Creek		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Dufferin Construction: 0.5 L hyd. oil to South Indian Creek		
Contaminant Qty:	0.5 L		

Site: City of Ottawa **Database:** SPL
Merivale Rd Southbound, just before Meadowlands Ottawa ON

Ref No:	4055-6XEUV6	Discharger Report:	
Site No:		Material Group:	Chemicals
Incident Dt:		Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:		Sector Type:	Other Motor Vehicle
Incident Event:		Agency Involved:	
Contaminant Code:	27	Nearest Watercourse:	
Contaminant Name:	COOLANT N.O.S.	Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	Not Anticipated	Site Municipality:	Ottawa
Nature of Impact:	Soil Contamination	Site Lot:	
Receiving Medium:	Land	Site Conc:	

Receiving Env:
MOE Response: No Field Response
Dt MOE Arvl on Scn:
MOE Reported Dt: 1/13/2007
Dt Document Closed: 4/11/2007
Incident Reason:
Site Name: Road and Catch basin<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: OC Transpo: bus leaked coolant in cb
Contaminant Qty: 40 L

Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class:
Source Type:

Site: City of Ottawa
Prince of Whales Drive <UNOFFICIAL> Ottawa ON

Database:
SPL

Ref No: 5841-6DFT8B
Site No:
Incident Dt: 6/17/2005
Year:
Incident Cause: Other Discharges
Incident Event:
Contaminant Code:
Contaminant Name: MOTOR OIL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Environment Impact: Not Anticipated
Nature of Impact:
Receiving Medium: Land
Receiving Env:
MOE Response:
Dt MOE Arvl on Scn:
MOE Reported Dt: 6/17/2005
Dt Document Closed:
Incident Reason: Equipment Failure
Site Name: Prince of Whales Drive <UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: Ottawa: Motor Oil to Road & Soil
Contaminant Qty: 20 L

Discharger Report: 0
Material Group: Oil
Health/Env Conseq:
Client Type:
Sector Type: Other Motor Vehicle
Agency Involved:
Nearest Watercourse:
Site Address:
Site District Office: Ottawa
Site Postal Code:
Site Region:
Site Municipality: Ottawa
Site Lot:
Site Conc:
Northing:
Easting:
Site Geo Ref Accu:
Site Map Datum:
SAC Action Class: Spills to Land
Source Type:

Site: lot 17 ON

Database:
WWIS

Well ID: 1525050
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: Cooling And A/C
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 74627
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 10/29/1990
Selected Flag: Yes
Abandonment Rec:
Contractor: 3749
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 017
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10046792
DP2BR: 72
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 8/24/1990
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931059900
Layer: 1
Color: 8
General Color: BLACK
Mat1: 02
Most Common Material: TOPSOIL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 1
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931059903
Layer: 4
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 62
Formation End Depth: 72
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931059901
Layer: 2
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 79
Mat2 Desc: PACKED
Mat3:
Mat3 Desc:
Formation Top Depth: 1

Formation End Depth: 43
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931059902
Layer: 3
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2: 77
Mat2 Desc: LOOSE
Mat3:
Mat3 Desc:
Formation Top Depth: 43
Formation End Depth: 62
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931059904
Layer: 5
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 72
Formation End Depth: 130
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933111011
Layer: 1
Plug From: 6
Plug To: 30
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961525050
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10595362
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930081949

Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 74
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991525050
Pump Set At:
Static Level: 24
Final Level After Pumping: 60
Recommended Pump Depth: 120
Pumping Rate: 24
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934386466
Test Type: Draw Down
Test Duration: 30
Test Level: 49
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934111059
Test Type: Draw Down
Test Duration: 15
Test Level: 34
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934655826
Test Type: Draw Down
Test Duration: 45
Test Level: 60
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934904620
Test Type: Draw Down
Test Duration: 60
Test Level: 60
Test Level UOM: ft

Site: HERON 1670 lot 20 ON

Database:
WWIS

Well ID: 1536291

Data Entry Status:

Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status:
Water Type:
Casing Material:
Audit No: Z34337
Tag: A035919
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Src:
Date Received: 4/13/2006
Selected Flag: Yes
Abandonment Rec:
Contractor: 7241
Form Version: 3
Owner:
Street Name: HERON 1670
County: OTTAWA
Municipality: OTTAWA CITY
Site Info:
Lot: 020
Concession:
Concession Name: JG
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11550357
DP2BR:
Spatial Status:
Code OB: 0
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 3/2/2006
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 933053125
Layer: 1
Color:
General Color:
Mat1: 28
Most Common Material: SAND
Mat2: 84
Mat2 Desc: SILTY
Mat3: 81
Mat3 Desc: SANDY
Formation Top Depth: 0
Formation End Depth:
Formation End Depth UOM: m

Annular Space/Abandonment
Sealing Record

Plug ID: 933293034
Layer: 2
Plug From: 0.3
Plug To: 2.74
Plug Depth UOM: m

Annular Space/Abandonment

Sealing Record

Plug ID: 933293035
Layer: 3
Plug From: 2.74
Plug To: 4.57
Plug Depth UOM: m

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933293033
Layer: 1
Plug From: 0
Plug To: 0.3
Plug Depth UOM: m

**Method of Construction & Well
Use**

Method Construction ID: 961536291
Method Construction Code: B
Method Construction: Other Method
Other Method Construction:

Pipe Information

Pipe ID: 11559964
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930878918
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 3.1
Casing Diameter: 3.175
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 933418297
Layer: 1
Slot:
Screen Top Depth:
Screen End Depth: 4.57
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter:

Site: lot 18 ON

Database:
WWIS

Well ID: 1528704
Construction Date:
Primary Water Use: Not Used
Sec. Water Use:
Final Well Status: Abandoned-Other

Data Entry Status:
Data Src: 1
Date Received: 8/25/1995
Selected Flag: Yes
Abandonment Rec:

Water Type:
Casing Material:
Audit No: 154348
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Contractor: 6844
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 018
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10050240
DP2BR:
Spatial Status:
Code OB: -
Code OB Desc: No formation data
Open Hole:
Cluster Kind:
Date Completed: 8/8/1995
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Annular Space/Abandonment
Sealing Record

Plug ID: 933113638
Layer: 2
Plug From: 5
Plug To: 16
Plug Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933113637
Layer: 1
Plug From: 0
Plug To: 5
Plug Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961528704
Method Construction Code: B
Method Construction: Other Method
Other Method Construction:

Pipe Information

Pipe ID: 10598810
Casing No: 1
Comment:

Alt Name:

Construction Record - Casing

Casing ID: 930087804
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 16
Casing Diameter: 24
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933326601
Layer: 1
Slot:
Screen Top Depth: 6
Screen End Depth: 16
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 24

Site: lot 18 ON

Database:
WWIS

Well ID:	1528703	Data Entry Status:	1
Construction Date:		Data Src:	
Primary Water Use:	Not Used	Date Received:	8/25/1995
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Abandoned-Other	Abandonment Rec:	
Water Type:		Contractor:	6844
Casing Material:		Form Version:	1
Audit No:	154347	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	018
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10050239	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:	—	East83:	
Code OB Desc:	No formation data	North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	8/8/1995	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			

Supplier Comment:

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933113635
Layer: 1
Plug From: 0
Plug To: 4
Plug Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933113636
Layer: 2
Plug From: 4
Plug To: 10
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961528703
Method Construction Code: B
Method Construction: Other Method
Other Method Construction:

Pipe Information

Pipe ID: 10598809
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930087803
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 10
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933326600
Layer: 1
Slot: 100
Screen Top Depth: 5
Screen End Depth: 10
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2

Site: lot 18 ON

Database:
WWIS

Well ID: 1528702

Data Entry Status:

Construction Date:
Primary Water Use: Not Used
Sec. Water Use:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: 154346
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Src: 1
Date Received: 8/25/1995
Selected Flag: Yes
Abandonment Rec:
Contractor: 6844
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 018
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10050238
DP2BR:
Spatial Status:
Code OB: -
Code OB Desc: No formation data
Open Hole:
Cluster Kind:
Date Completed: 8/8/1995
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Annular Space/Abandonment Sealing Record

Plug ID: 933113634
Layer: 2
Plug From: 4
Plug To: 10
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933113633
Layer: 1
Plug From: 0
Plug To: 4
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961528702
Method Construction Code: B
Method Construction: Other Method
Other Method Construction:

Pipe Information

Pipe ID: 10598808
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930087802
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 10
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933326599
Layer: 1
Slot: 100
Screen Top Depth: 5
Screen End Depth: 10
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2

Site:
lot 18 ON

Database:
[WWIS](#)

Well ID: 1528701
Construction Date:
Primary Water Use: Not Used
Sec. Water Use:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: 154345
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 8/25/1995
Selected Flag: Yes
Abandonment Rec:
Contractor: 6844
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 018
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10050237
DP2BR:
Spatial Status:
Code OB:
Code OB Desc: No formation data
Open Hole:
Cluster Kind:
Date Completed: 8/8/1995
Remarks:
Elevrc Desc:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933113631
Layer: 1
Plug From: 0
Plug To: 5
Plug Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933113632
Layer: 2
Plug From: 5
Plug To: 15
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961528701
Method Construction Code: B
Method Construction: Other Method
Other Method Construction:

Pipe Information

Pipe ID: 10598807
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930087801
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 15
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933326598
Layer: 1
Slot: 100
Screen Top Depth: 5
Screen End Depth: 15
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2

Site:
lot 18 ON

Database:
WWIS

Well ID: 1528700
Construction Date:
Primary Water Use: Not Used
Sec. Water Use:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: 154344
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 8/25/1995
Selected Flag: Yes
Abandonment Rec:
Contractor: 6844
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 018
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10050236
DP2BR:
Spatial Status:
Code OB: _
Code OB Desc: No formation data
Open Hole:
Cluster Kind:
Date Completed: 8/8/1995
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Annular Space/Abandonment Sealing Record

Plug ID: 933113630
Layer: 2
Plug From: 5
Plug To: 10
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933113629
Layer: 1
Plug From: 0
Plug To: 5
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961528700
Method Construction Code: B
Method Construction: Other Method

Other Method Construction:

Pipe Information

Pipe ID: 10598806
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930087800
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 10
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933326597
Layer: 1
Slot: 100
Screen Top Depth: 5
Screen End Depth: 10
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2

Site: lot 18 ON

Database:
WWIS

Well ID: 1528066
Construction Date:
Primary Water Use: Not Used
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 149115
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 7/28/1994
Selected Flag: Yes
Abandonment Rec:
Contractor: 6844
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 018
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10049606
DP2BR:
Spatial Status:
Code OB: o
Code OB Desc: Overburden
Open Hole:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:

Cluster Kind:
Date Completed: 6/23/1994
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931068465
Layer: 4
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 85
Mat2 Desc: SOFT
Mat3: 74
Mat3 Desc: LAYERED
Formation Top Depth: 4
Formation End Depth: 10
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068464
Layer: 3
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 66
Mat2 Desc: DENSE
Mat3:
Mat3 Desc:
Formation Top Depth: 1
Formation End Depth: 4
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068462
Layer: 1
Color: 8
General Color: BLACK
Mat1: 00
Most Common Material: UNKNOWN TYPE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068463

Layer: 2
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 79
Mat2 Desc: PACKED
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 1
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112936
Layer: 1
Plug From: 0
Plug To: 2
Plug Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112938
Layer: 3
Plug From: 4
Plug To: 10
Plug Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112937
Layer: 2
Plug From: 2
Plug To: 4
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961528066
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 10598176
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930086683
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 10
Casing Diameter: 2

Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933326486
Layer: 1
Slot: 100
Screen Top Depth: 5
Screen End Depth: 10
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2

Water Details

Water ID: 933487649
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 7
Water Found Depth UOM: ft

Site:
lot 18 ON

Database:
WWIS

Well ID:	1528064	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Not Used	Date Received:	7/28/1994
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Observation Wells	Abandonment Rec:	
Water Type:		Contractor:	6844
Casing Material:		Form Version:	1
Audit No:	149102	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	018
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Eastings NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10049604	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:	o	East83:	
Code OB Desc:	Overburden	North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	6/23/1994	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock
Materials Interval

Formation ID: 931068456
Layer: 3
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 85
Mat2 Desc: SOFT
Mat3: 74
Mat3 Desc: LAYERED
Formation Top Depth: 1
Formation End Depth: 10
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068455
Layer: 2
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 79
Mat2 Desc: PACKED
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 1
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068454
Layer: 1
Color: 8
General Color: BLACK
Mat1: 00
Most Common Material: UNKNOWN TYPE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 0
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933112931
Layer: 2
Plug From: 2
Plug To: 4
Plug Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933112930
Layer: 1

Plug From: 0
Plug To: 2
Plug Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112932
Layer: 3
Plug From: 4
Plug To: 10
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961528064
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 10598174
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930086681
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 10
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933326484
Layer: 1
Slot: 100
Screen Top Depth: 5
Screen End Depth: 10
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2

Water Details

Water ID: 933487647
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 6
Water Found Depth UOM: ft

Site: lot 18 ON

Database:
WWIS

Well ID: 1528063
Construction Date:
Primary Water Use: Not Used
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 149101
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 7/28/1994
Selected Flag: Yes
Abandonment Rec:
Contractor: 6844
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 018
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10049603
DP2BR:
Spatial Status:
Code OB: 0
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 6/23/1994
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931068453
Layer: 5
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 6
Formation End Depth: 13
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931068451
Layer: 3
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY

Mat2: 66
Mat2 Desc: DENSE
Mat3:
Mat3 Desc:
Formation Top Depth: 1
Formation End Depth: 4
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931068450
Layer: 2
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 79
Mat2 Desc: PACKED
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 1
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931068452
Layer: 4
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 66
Mat2 Desc: DENSE
Mat3:
Mat3 Desc:
Formation Top Depth: 4
Formation End Depth: 6
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931068449
Layer: 1
Color: 8
General Color: BLACK
Mat1: 00
Most Common Material: UNKNOWN TYPE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 0
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112927
Layer: 1
Plug From: 0

Plug To: 2
Plug Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112928
Layer: 2
Plug From: 2
Plug To: 3
Plug Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112929
Layer: 3
Plug From: 3
Plug To: 13
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961528063
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 10598173
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930086680
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 13
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933326483
Layer: 1
Slot: 100
Screen Top Depth: 3
Screen End Depth: 13
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2

Water Details

Water ID: 933487646

Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 8
Water Found Depth UOM: ft

Site:
lot 18 ON

Database:
WWIS

Well ID: 1528062
Construction Date:
Primary Water Use: Not Used
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 149100
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 7/28/1994
Selected Flag: Yes
Abandonment Rec:
Contractor: 6844
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 018
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10049602
DP2BR:
Spatial Status:
Code OB: o
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 6/22/1994
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931068446
Layer: 2
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 79
Mat2 Desc: PACKED
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 1
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931068447
Layer: 3
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 66
Mat2 Desc: DENSE
Mat3:
Mat3 Desc:
Formation Top Depth: 1
Formation End Depth: 4
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931068448
Layer: 4
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 85
Mat2 Desc: SOFT
Mat3: 74
Mat3 Desc: LAYERED
Formation Top Depth: 4
Formation End Depth: 10
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931068445
Layer: 1
Color: 8
General Color: BLACK
Mat1: 00
Most Common Material: UNKNOWN TYPE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 0
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 933112924
Layer: 1
Plug From: 0
Plug To: 2
Plug Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 933112925
Layer: 2
Plug From: 2

Plug To: 4
Plug Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112926
Layer: 3
Plug From: 4
Plug To: 10
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961528062
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 10598172
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930086679
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 10
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933326482
Layer: 1
Slot: 100
Screen Top Depth: 5
Screen End Depth: 10
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2

Water Details

Water ID: 933487645
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 6
Water Found Depth UOM: ft

Site: lot 18 ON

Database:
WWIS

Well ID: 1528061
Construction Date:
Primary Water Use: Not Used
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 149091
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 7/28/1994
Selected Flag: Yes
Abandonment Rec:
Contractor: 6844
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 018
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10049601
DP2BR:
Spatial Status:
Code OB: o
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 6/22/1994
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931068444
Layer: 3
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 74
Mat2 Desc: LAYERED
Mat3: 79
Mat3 Desc: PACKED
Formation Top Depth: 5
Formation End Depth: 15
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068442
Layer: 1
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 28

Mat2 Desc: SAND
Mat3: 77
Mat3 Desc: LOOSE
Formation Top Depth: 0
Formation End Depth: 1
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931068443
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 77
Mat2 Desc: LOOSE
Mat3:
Mat3 Desc:
Formation Top Depth: 1
Formation End Depth: 5
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112921
Layer: 1
Plug From: 3
Plug To: 3
Plug Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112923
Layer: 3
Plug From: 4
Plug To: 15
Plug Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112922
Layer: 2
Plug From: 3
Plug To: 4
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961528061
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 10598171
Casing No: 1
Comment:

Alt Name:

Construction Record - Casing

Casing ID: 930086678
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 15
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933326481
Layer: 1
Slot: 100
Screen Top Depth: 5
Screen End Depth: 15
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2

Water Details

Water ID: 933487644
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 10
Water Found Depth UOM: ft

Site: lot 18 ON

Database:
WWIS

Well ID:	1528060	Data Entry Status:	
Construction Date:		Data Src:	1
Primary Water Use:	Not Used	Date Received:	7/28/1994
Sec. Water Use:		Selected Flag:	Yes
Final Well Status:	Observation Wells	Abandonment Rec:	
Water Type:		Contractor:	6844
Casing Material:		Form Version:	1
Audit No:	149098	Owner:	
Tag:		Street Name:	
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	018
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10049600	Elevation:	
DP2BR:	0	Elevrc:	
Spatial Status:		Zone:	18
Code OB:	v	East83:	

Code OB Desc: Overburden below Bedrock
Open Hole:
Cluster Kind:
Date Completed: 6/22/1994
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock
Materials Interval

Formation ID: 931068438
Layer: 1
Color: 8
General Color: BLACK
Mat1: 16
Most Common Material: DOLOMITE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 0
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068439
Layer: 2
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 79
Mat2 Desc: PACKED
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 1
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068441
Layer: 4
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 74
Mat2 Desc: LAYERED
Mat3: 11
Mat3 Desc: GRAVEL
Formation Top Depth: 5
Formation End Depth: 10
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068440
Layer: 3
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 77
Mat2 Desc: LOOSE
Mat3:
Mat3 Desc:
Formation Top Depth: 1
Formation End Depth: 5
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112920
Layer: 3
Plug From: 4
Plug To: 10
Plug Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112918
Layer: 1
Plug From: 3
Plug To: 3
Plug Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112919
Layer: 2
Plug From: 3
Plug To: 4
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961528060
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 10598170
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930086677
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:

Depth To: 10
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933326480
Layer: 1
Slot: 010
Screen Top Depth: 5
Screen End Depth: 10
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2

Water Details

Water ID: 933487643
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 7
Water Found Depth UOM: ft

Site: lot 20 ON

Database:
[WWIS](#)

Well ID: 1527942
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status:
Water Type:
Casing Material:
Audit No: 139317
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status: 1
Data Src:
Date Received: 6/9/1994
Selected Flag: Yes
Abandonment Rec:
Contractor: 3142
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 020
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10049484
DP2BR: 16
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 6/3/1994
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:

Elevation:
Elevrc: 18
Zone:
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Supplier Comment:

**Overburden and Bedrock
Materials Interval**

Formation ID: 931068041
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 16
Formation End Depth: 70
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931068042
Layer: 3
Color: 8
General Color: BLACK
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 70
Formation End Depth: 97
Formation End Depth UOM: ft

**Overburden and Bedrock
Materials Interval**

Formation ID: 931068040
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 13
Mat2 Desc: BOULDERS
Mat3: 79
Mat3 Desc: PACKED
Formation Top Depth: 0
Formation End Depth: 16
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112804
Layer: 1
Plug From: 0
Plug To: 21
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961527942
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 10598054
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930086443
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 97
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930086442
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991527942
Pump Set At:
Static Level: 4
Final Level After Pumping: 60
Recommended Pump Depth: 80
Pumping Rate: 25
Flowing Rate:
Recommended Pump Rate: 10
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934386620
Test Type:
Test Duration: 30
Test Level: 60
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934655949
Test Type:
Test Duration: 45
Test Level: 60
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934111811
Test Type:
Test Duration: 15
Test Level: 60
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934904319
Test Type:
Test Duration: 60
Test Level: 60
Test Level UOM: ft

Water Details

Water ID: 933487483
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 93
Water Found Depth UOM: ft

Water Details

Water ID: 933487482
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 84
Water Found Depth UOM: ft

Site:

lot 20 con A ON

Database:
WWIS

Well ID: 1527014
Construction Date:
Primary Water Use: Municipal
Sec. Water Use:
Final Well Status: Recharge Well
Water Type:
Casing Material:
Audit No: 126202
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 3/3/1993
Selected Flag: Yes
Abandonment Rec:
Contractor: 4006
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 020
Concession: A
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10048696
DP2BR: 50
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 1/15/1993
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931065787
Layer: 3
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2: 06
Mat2 Desc: SILT
Mat3: 05
Mat3 Desc: CLAY
Formation Top Depth: 8
Formation End Depth: 46
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931065785
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 3
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931065788
Layer: 4
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 06
Mat2 Desc: SILT
Mat3: 11
Mat3 Desc: GRAVEL

Formation Top Depth: 46
Formation End Depth: 50
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931065786
Layer: 2
Color: 2
General Color: GREY
Mat1: 28
Most Common Material: SAND
Mat2: 10
Mat2 Desc: COARSE SAND
Mat3:
Mat3 Desc:
Formation Top Depth: 3
Formation End Depth: 8
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931065789
Layer: 5
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 50
Formation End Depth: 55
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933112139
Layer: 1
Plug From: 5
Plug To: 20
Plug Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961527014
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10597266
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930085179
Layer: 2
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 48
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930085178
Layer: 1
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 55
Casing Diameter: 12
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933326432
Layer: 1
Slot: 030
Screen Top Depth: 46
Screen End Depth: 51
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 6

Results of Well Yield Testing

Pump Test ID: 991527014
Pump Set At:
Static Level: 29
Final Level After Pumping: 49
Recommended Pump Depth: 50
Pumping Rate: 20
Flowing Rate:
Recommended Pump Rate: 20
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 99
Pumping Duration MIN: 59
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934653728
Test Type:
Test Duration: 45
Test Level: 45
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934393218
Test Type:

Test Duration: 30
Test Level: 41
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934902522
Test Type:
Test Duration: 60
Test Level: 47
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934109583
Test Type:
Test Duration: 15
Test Level: 13
Test Level UOM: ft

Water Details

Water ID: 933486487
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 53
Water Found Depth UOM: ft

Site: lot 18 ON

Database:
[WWIS](#)

Well ID:	1526813	Data Entry Status:	1
Construction Date:		Data Src:	12/8/1992
Primary Water Use:	Not Used	Date Received:	Yes
Sec. Water Use:		Selected Flag:	Abandonment Rec:
Final Well Status:	Observation Wells	Contractor:	6587
Water Type:		Form Version:	1
Casing Material:		Owner:	
Audit No:	116877	Street Name:	
Tag:		County:	OTTAWA
Construction Method:		Municipality:	OTTAWA CITY (NEPEAN)
Elevation (m):		Site Info:	
Elevation Reliability:		Lot:	018
Depth to Bedrock:		Concession:	
Well Depth:		Concession Name:	
Overburden/Bedrock:		Easting NAD83:	
Pump Rate:		Northing NAD83:	
Static Water Level:		Zone:	
Flowing (Y/N):		UTM Reliability:	
Flow Rate:			
Clear/Cloudy:			

Bore Hole Information

Bore Hole ID:	10048501	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:	o	East83:	
Code OB Desc:	Overburden	North83:	
Open Hole:		Org CS:	
Cluster Kind:		UTMRC:	9
Date Completed:	8/19/1992	UTMRC Desc:	unknown UTM
Remarks:		Location Method:	na
Elevrc Desc:			

Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock
Materials Interval

Formation ID: 931065250
Layer: 3
Color: 6
General Color: BROWN
Mat1: 11
Most Common Material: GRAVEL
Mat2: 13
Mat2 Desc: BOULDERS
Mat3: 73
Mat3 Desc: HARD
Formation Top Depth: 13
Formation End Depth: 17
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931065249
Layer: 2
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 2
Formation End Depth: 13
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931065248
Layer: 1
Color: 6
General Color: BROWN
Mat1: 02
Most Common Material: TOPSOIL
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 2
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931065251
Layer: 4
Color: 6
General Color: BROWN
Mat1: 11

Most Common Material: GRAVEL
Mat2: 73
Mat2 Desc: HARD
Mat3:
Mat3 Desc:
Formation Top Depth: 17
Formation End Depth: 25
Formation End Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933111979
Layer: 1
Plug From: 0
Plug To: 17
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961526813
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10597071
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930084938
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933326431
Layer: 1
Slot: 060
Screen Top Depth: 23
Screen End Depth: 26
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 4

Results of Well Yield Testing

Pump Test ID: 991526813
Pump Set At:
Static Level: 15
Final Level After Pumping: 20
Recommended Pump Depth: 20

Pumping Rate: 30
Flowing Rate:
Recommended Pump Rate: 8
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934653125
Test Type:
Test Duration: 45
Test Level: 20
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934910316
Test Type:
Test Duration: 60
Test Level: 20
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934392612
Test Type:
Test Duration: 30
Test Level: 20
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934108978
Test Type:
Test Duration: 15
Test Level: 20
Test Level UOM: ft

Water Details

Water ID: 933486256
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 24
Water Found Depth UOM: ft

Site:
lot 19 ON

Database:
WWIS

Well ID: 1525426
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status:
Water Type:
Casing Material:
Audit No: 100036

Data Entry Status:
Data Src: 1
Date Received: 6/18/1991
Selected Flag: Yes
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:

Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 019
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10047164
DP2BR:
Spatial Status:
Code OB: -
Code OB Desc: No formation data
Open Hole:
Cluster Kind:
Date Completed: 4/10/1991
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933111195
Layer: 1
Plug From: 0
Plug To: 100
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961525426
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 10595734
Casing No: 1
Comment:
Alt Name:

Site: lot 18 ON

Database:
WWIS

Well ID: 1528065
Construction Date:
Primary Water Use: Not Used
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:

Data Entry Status:
Data Src: 1
Date Received: 7/28/1994
Selected Flag: Yes
Abandonment Rec:
Contractor: 6844
Form Version: 1

Audit No: 149103
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 018
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10049605
DP2BR:
Spatial Status:
Code OB: o
Code OB Desc: Overburden
Open Hole:
Cluster Kind:
Date Completed: 6/23/1994
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931068457
Layer: 1
Color: 8
General Color: BLACK
Mat1: 00
Most Common Material: UNKNOWN TYPE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931068458
Layer: 2
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL
Mat2: 79
Mat2 Desc: PACKED
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 1
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068459
Layer: 3
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 66
Mat2 Desc: DENSE
Mat3:
Mat3 Desc:
Formation Top Depth: 1
Formation End Depth: 2
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068460
Layer: 4
Color: 6
General Color: BROWN
Mat1: 08
Most Common Material: FINE SAND
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 2
Formation End Depth: 4
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931068461
Layer: 5
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 85
Mat2 Desc: SOFT
Mat3: 74
Mat3 Desc: LAYERED
Formation Top Depth: 4
Formation End Depth: 10
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933112935
Layer: 3
Plug From: 4
Plug To: 10
Plug Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933112933
Layer: 1

Plug From: 0
Plug To: 2
Plug Depth UOM: ft

**Annular Space/Abandonment
Sealing Record**

Plug ID: 933112934
Layer: 2
Plug From: 2
Plug To: 4
Plug Depth UOM: ft

**Method of Construction & Well
Use**

Method Construction ID: 961528065
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 10598175
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930086682
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 10
Casing Diameter: 2
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933326485
Layer: 1
Slot: 100
Screen Top Depth: 5
Screen End Depth: 10
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2

Water Details

Water ID: 933487648
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 7
Water Found Depth UOM: ft

Site: lot 17 ON

Database:
WWIS

Well ID: 1525217
Construction Date:
Primary Water Use: Domestic
Sec. Water Use: Cooling And A/C
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 91530
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 12/10/1990
Selected Flag: Yes
Abandonment Rec:
Contractor: 3749
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 017
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10046958
DP2BR: 68
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 10/26/1990
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931060480
Layer: 1
Color: 2
General Color: GREY
Mat1: 05
Most Common Material: CLAY
Mat2: 01
Mat2 Desc: FILL
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 40
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931060482
Layer: 3
Color: 2
General Color: GREY
Mat1: 11
Most Common Material: GRAVEL

Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 61
Formation End Depth: 68
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931060481
Layer: 2
Color: 3
General Color: BLUE
Mat1: 05
Most Common Material: CLAY
Mat2: 77
Mat2 Desc: LOOSE
Mat3:
Mat3 Desc:
Formation Top Depth: 40
Formation End Depth: 61
Formation End Depth UOM: ft

Overburden and Bedrock
Materials Interval

Formation ID: 931060483
Layer: 4
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 68
Formation End Depth: 130
Formation End Depth UOM: ft

Annular Space/Abandonment
Sealing Record

Plug ID: 933111130
Layer: 1
Plug From: 8
Plug To: 26
Plug Depth UOM: ft

Method of Construction & Well
Use

Method Construction ID: 961525217
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10595528
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930082226
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 71
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991525217
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate: 21
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933484125
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 124
Water Found Depth UOM: ft

Water Details

Water ID: 933484124
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 86
Water Found Depth UOM: ft

Site: lot 18 ON

Database:
[WWIS](#)

Well ID: 1533714
Construction Date:
Primary Water Use:
Sec. Water Use:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: 257729
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:

Data Entry Status:
Data Src: 1
Date Received: 5/27/2003
Selected Flag: Yes
Abandonment Rec:
Contractor: 6907
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:

Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Lot: 018
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10537548
DP2BR:
Spatial Status:
Code OB: -
Code OB Desc: No formation data
Open Hole:
Cluster Kind:
Date Completed: 10/24/2002
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Method of Construction & Well Use

Method Construction ID: 961533714
Method Construction Code: B
Method Construction: Other Method
Other Method Construction:

Pipe Information

Pipe ID: 11086118
Casing No: 1
Comment:
Alt Name:

Site: lot 20 con A ON

Database:
WWIS

Well ID: 1521318
Construction Date:
Primary Water Use: Domestic
Sec. Water Use:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 04604
Tag:
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src: 1
Date Received: 5/20/1987
Selected Flag: Yes
Abandonment Rec:
Contractor: 1558
Form Version: 1
Owner:
Street Name:
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot: 020
Concession: A
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10043140
DP2BR: 27
Spatial Status:
Code OB: r
Code OB Desc: Bedrock
Open Hole:
Cluster Kind:
Date Completed: 4/20/1987
Remarks:
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 18
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock

Materials Interval

Formation ID: 931047555
Layer: 1
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 79
Mat2 Desc: PACKED
Mat3:
Mat3 Desc:
Formation Top Depth: 0
Formation End Depth: 12
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931047556
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 13
Mat2 Desc: BOULDERS
Mat3:
Mat3 Desc:
Formation Top Depth: 12
Formation End Depth: 27
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 931047557
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2: 78
Mat2 Desc: MEDIUM-GRAINED
Mat3:
Mat3 Desc:

Formation Top Depth: 27
Formation End Depth: 65
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 961521318
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 10591710
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930075323
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 65
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930075322
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 30
Casing Diameter: 6
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pump Test ID: 991521318
Pump Set At:
Static Level: 20
Final Level After Pumping: 40
Recommended Pump Depth: 50
Pumping Rate: 10
Flowing Rate:
Recommended Pump Rate: 5
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934105997
Test Type: Draw Down
Test Duration: 15
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934390096
Test Type: Draw Down
Test Duration: 30
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934909451
Test Type: Draw Down
Test Duration: 60
Test Level: 40
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934651663
Test Type: Draw Down
Test Duration: 45
Test Level: 40
Test Level UOM: ft

Water Details

Water ID: 933478825
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 56
Water Found Depth UOM: ft

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. **Note:** Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial [AGR](#)

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Sep 2020

Abandoned Mine Information System:

Provincial [AMIS](#)

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites:

Private [ANDR](#)

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial [AST](#)

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private [AUWR](#)

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Dec 31, 2020

Borehole:

Provincial [BORE](#)

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2018

Commercial Fuel Oil Tanks:

Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.

Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Chemical Manufacturers and Distributors:

Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register:

Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Dec 31, 2020

Compressed Natural Gas Stations:

Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Dec 2020

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Nov 2020

Certificates of Property Use:

Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994-Feb 28, 2021

Drill Hole Database:

Provincial [DRL](#)

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks:

Provincial [DTNK](#)

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: Jul 31, 2020

Environmental Activity and Sector Registry:

Provincial [EASR](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Feb 28, 2021

Environmental Registry:

Provincial [EBR](#)

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994-Feb 28, 2021

Environmental Compliance Approval:

Provincial [ECA](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011- Feb 28, 2021

Environmental Effects Monitoring:

Federal [EEM](#)

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches:

Private [EHS](#)

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Jan 31, 2021

Environmental Issues Inventory System:

Federal [EIIS](#)

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial **EMHE**

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial **EPAR**

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land / water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2020

List of Expired Fuels Safety Facilities:

Provincial **EXP**

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Federal Convictions:

Federal **FCON**

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal **FCS**

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Jan 2021

Fisheries & Oceans Fuel Tanks:

Federal **FOFT**

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal **FRST**

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank:

Provincial **FST**

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Fuel Storage Tank - Historic:

Provincial

[FSTH](#)

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

[GEN](#)

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Jan 31, 2021

Greenhouse Gas Emissions from Large Facilities:

Federal

[GHG](#)

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO₂ eq).

Government Publication Date: 2013-Dec 2018

TSSA Historic Incidents:

Provincial

[HINC](#)

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

[IAFT](#)

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

[INC](#)

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing is a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Landfill Inventory Management Ontario:

Provincial

[LIMO](#)

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations:

Private

[MINE](#)

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial [MNR](#)

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Dec 2020

National Analysis of Trends in Emergencies System (NATES):

Federal [NATE](#)

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial [NCPL](#)

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2018

National Defense & Canadian Forces Fuel Tanks:

Federal [NDFT](#)

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal [NDSP](#)

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:

Federal [NDWD](#)

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal [NEBI](#)

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Dec 31, 2020

National Energy Board Wells:

Federal [NEBP](#)

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Feb 28, 2021

Ontario Oil and Gas Wells:

Provincial

OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Jun 2020

Inventory of PCB Storage Sites:

Provincial

OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders:

Provincial

ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994-Feb 28, 2021

Canadian Pulp and Paper:

Private

PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks:

Federal

PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011-Feb 28, 2021

Pipeline Incidents:

Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 31, 2020

Private and Retail Fuel Storage Tanks:

Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994-Feb 28, 2021

Ontario Regulation 347 Waste Receivers Summary:

Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-2016

Record of Site Condition:

Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.

RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

Government Publication Date: 1997-Sept 2001, Oct 2004-Mar 2021

Retail Fuel Storage Tanks:

Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Dec 31, 2020

Scott's Manufacturing Directory:

Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial SPL

List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Mar 2020; Jul 2020 - Aug 2020

Wastewater Discharger Registration Database:

Provincial [SRDS](#)

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2017

Anderson's Storage Tanks:

Private [TANK](#)

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal [TCFT](#)

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Dec 2020

Variations for Abandonment of Underground Storage Tanks:

Provincial [VAR](#)

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Waste Disposal Sites - MOE CA Inventory:

Provincial [WDS](#)

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011-Feb 28, 2021

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial [WDSH](#)

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30th, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial [WWIS](#)

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Apr 30, 2020

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX E
REGULATORY AGENCY RESPONSES

Freedom of Information and
Protection of Privacy Office
40 St. Clair Avenue West, 12th Floor
Toronto ON M4V 1M2
Telephone 416 314-4075

Instructions

Use this form to request records that are in the Ministry's files on environmental concerns related to properties. Our fax number is 416 314-4285.

For Ministry Use Only


FOI Request Number	Date Request Received (yyyy/mm/dd)
Fee Paid	<input type="checkbox"/> Cheque <input type="checkbox"/> VISA/MC <input type="checkbox"/> Cash/Money Order
<input type="checkbox"/> CNR <input type="checkbox"/> ER <input type="checkbox"/> NOR <input type="checkbox"/> SWR <input type="checkbox"/> WCR <input type="checkbox"/> IEB <input type="checkbox"/> EAA <input type="checkbox"/> EMR <input type="checkbox"/> SCB <input type="checkbox"/> SDW	

1. Requester Data

Last Name Gluck	First Name Michelle	Middle Initial
Title Geoscientist	Company Name Geosyntec Consultants International, Inc.	

Mailing Address

Unit Number 1201	Street Number 1243	Street Name Islington Avenue	PO Box
City/Town Toronto		Province Ontario	Postal Code M8X 1Y9
Email Address mgluck@geosyntec.com		Telephone Number 416 669-6213 ext.	Fax Number

Project/Reference Number TR0936B	Signature of Requester 
--	---

2. Request Parameters

Municipal Address (Municipal address mandatory for cities, towns or regions)

Unit Number	Street Number 99	Street Name Bill Leathem Drive	PO Box
Lot Number	Concession	Geographic Township	
City/Town/Village Ottawa		Province Ontario	Postal Code K2C 3H1

Present Property

1. Owner Zena-Kinder Holdings Ltd.	Date of Ownership (yyyy/mm/dd)
--	--------------------------------

Previous Property

1. Owner	Date of Ownership (yyyy/mm/dd)
Tenant (if applicable)	

3. Search Parameters

Search Parameters	Specify Year(s) Requested
Environmental concerns (General correspondence, occurrence reports, abatement)	1900 to Present
Orders	1900 to Present
Spills	1900 to Present
Investigations/prosecutions ► Owner and tenant information must be provided	1900 to Present
Waste Generator number/classes	1900 to Present

Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.

4. Environmental Compliance Approvals/Certificates of Approval

Environmental Compliance Approvals/Certificates of Approval	SD	Specify Year(s) Requested
air - emissions	<input checked="" type="checkbox"/>	1900 to Present
renewable energy	<input checked="" type="checkbox"/>	1900 to Present
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)	<input checked="" type="checkbox"/>	1900 to Present
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations	<input checked="" type="checkbox"/>	1900 to Present
waste water - industrial discharge	<input checked="" type="checkbox"/>	1900 to Present
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites	<input checked="" type="checkbox"/>	1900 to Present
waste systems - haulers: sewage, non-hazardous & hazardous waste, mobile waste processing units, PCB destruction	<input checked="" type="checkbox"/>	1900 to Present

Proponent information must be provided and Environmental Compliance Approval/Certificate of Approval number(s) (if known). 1985 and prior records are searched manually. Search fees in excess of \$300.00 may be incurred, depending on the types and years to be searched. Specify Approval number(s) (if known). If supporting documents are also required, mark SD box and specify type e.g. maps, plans, reports, etc.



Freedom of Information and
Protection of Privacy Office
40 St. Clair Avenue West, 12th Floor
Toronto ON M4V 1M2
Telephone 416 314-4075

Instructions

To pay Freedom of Information fees by credit card, please complete this form and mail to the address above or fax to:

Ministry of the Environment and Climate Change
Freedom of Information Office
Fax: 416 314-4285

Fields marked with an asterisk (*) are mandatory.

Payment Information

Payment Purpose (check all that apply) *

Application Fee Fast Track Search Fee Deposit or Final Fees

If payment is for fees owed on an existing request, please provide request number

Payment Amount

*\$35.00

Date (yyyy/mm/dd) *

2021/04/14

Credit Card Type *

VISA MasterCard American Express

Card Number *

4817 9000 0000 0550

Expiry Date on Card (mm/yy) *

01/22

Card Holder's Name *

Waterloo Office Geosyntec Intl

Card Holder's Phone Number *

519 514-2245 ext.

Card Holder's Signature *

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1. Requester Data

Last Name Gluck	First Name Michelle	Middle Initial
Title Geoscientist	Company Name Geosyntec Consultants International, Inc.	

Mailing Address

Unit Number 1201	Street Number 1243	Street Name Islington Avenue	PO Box
City/Town Toronto		Province Ontario	Postal Code M8X 1Y9
Email Address mgluck@geosyntec.com		Telephone Number 416 669-6213 ext.	Fax Number

Project/Reference Number TR0936B	Signature of Requester 
--	---

2. Request Parameters

Municipal Address (Municipal address mandatory for cities, towns or regions)

Unit Number	Street Number 2	Street Name Leikin Drive	PO Box
Lot Number	Concession	Geographic Township	
City/Town/Village Ottawa		Province Ontario	Postal Code K2C 3H1

Present Property

1. Owner Zena-Kinder Holdings Ltd.	Date of Ownership (yyyy/mm/dd)
--	--------------------------------

Previous Property

1. Owner	Date of Ownership (yyyy/mm/dd)
Tenant (if applicable)	

3. Search Parameters

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renewable energy	<input checked="" type="checkbox"/>	1900 to Present
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)	<input checked="" type="checkbox"/>	1900 to Present
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations	<input checked="" type="checkbox"/>	1900 to Present
waste water - industrial discharge	<input checked="" type="checkbox"/>	1900 to Present
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites	<input checked="" type="checkbox"/>	1900 to Present
waste systems - haulers: sewage, non-hazardous & hazardous waste, mobile waste processing units, PCB destruction	<input checked="" type="checkbox"/>	1900 to Present

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Payment Amount

*\$35.00

Date (yyyy/mm/dd) *

2021/04/14

Credit Card Type *

VISA MasterCard American Express

Card Number *

4817 9000 0000 0550

Expiry Date on Card (mm/yy) *

01/22

Card Holder's Name *

Waterloo Office Geosyntec Intl

Card Holder's Phone Number *

519 514-2245 ext.

Card Holder's Signature *

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Email Address mgluck@geosyntec.com		Telephone Number 416 669-6213 ext.	Fax Number

Project/Reference Number TR0936B	Signature of Requester 
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2. Request Parameters

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Unit Number	Street Number 20	Street Name Leikin Drive	PO Box
Lot Number	Concession	Geographic Township	
City/Town/Village Ottawa		Province Ontario	Postal Code K2C 3H1

Present Property

1. Owner Zena-Kinder Holdings Ltd.	Date of Ownership (yyyy/mm/dd)
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Previous Property

1. Owner	Date of Ownership (yyyy/mm/dd)
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3. Search Parameters

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renewable energy	<input checked="" type="checkbox"/>	1900 to Present
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)	<input checked="" type="checkbox"/>	1900 to Present
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations	<input checked="" type="checkbox"/>	1900 to Present
waste water - industrial discharge	<input checked="" type="checkbox"/>	1900 to Present
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites	<input checked="" type="checkbox"/>	1900 to Present
waste systems - haulers: sewage, non-hazardous & hazardous waste, mobile waste processing units, PCB destruction	<input checked="" type="checkbox"/>	1900 to Present

Proponent information must be provided and Environmental Compliance Approval/Certificate of Approval number(s) (if known). 1985 and prior records are searched manually. Search fees in excess of \$300.00 may be incurred, depending on the types and years to be searched. Specify Approval number(s) (if known). If supporting documents are also required, mark SD box and specify type e.g. maps, plans, reports, etc.



Freedom of Information and
Protection of Privacy Office
40 St. Clair Avenue West, 12th Floor
Toronto ON M4V 1M2
Telephone 416 314-4075

Instructions

To pay Freedom of Information fees by credit card, please complete this form and mail to the address above or fax to:

Ministry of the Environment and Climate Change
Freedom of Information Office
Fax: 416 314-4285

Fields marked with an asterisk (*) are mandatory.

Payment Information

Payment Purpose (check all that apply) *

Application Fee Fast Track Search Fee Deposit or Final Fees

If payment is for fees owed on an existing request, please provide request number

Payment Amount

*\$35.00

Date (yyyy/mm/dd) *

2021/04/14

Credit Card Type *

VISA MasterCard American Express

Card Number *

4817 9000 0000 0550

Expiry Date on Card (mm/yy) *

01/22

Card Holder's Name *

Waterloo Office Geosyntec Intl

Card Holder's Phone Number *

519 514-2245 ext.

Card Holder's Signature *

Michelle Gluck

From: Public Information Services <publicinformationsservices@tssa.org>
Sent: Thursday, April 15, 2021 9:06 AM
To: Michelle Gluck
Subject: RE: Fuel Records Inquiry

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic.

Please refrain from sending documents to head office and only submit your requests electronically via email along with credit card payment. We are all working remotely and mailing in applications with cheques will lengthen the overall processing time.

NO RECORD FOUND

Hello Michelle,

Thank you for your request for confirmation of public information.

- We confirm that there are no records in our database of any fuel storage tanks at the subject addresses:

For a further search in our archives please complete our release of public information form found at https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?_mid_=392 and email the completed form to publicinformationsservices@tssa.org along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard).

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Kind regards,

Saara



Public Information Agent

Facilities and Business Services
345 Carlingview Drive
Toronto, Ontario M9W 6N9

Tel: +1-416-734-6222 | Fax: +1-416-734-3568 | E-Mail: publicinformationsservices@tssa.org

www.tssa.org



From: Michelle Gluck <MGluck@Geosyntec.com>
Sent: April 14, 2021 3:09 PM
To: Public Information Services <publicinformationsservices@tssa.org>
Subject: Fuel Records Inquiry

[CAUTION]: This email originated outside the organisation.

Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

Good afternoon,

Please conduct a search for any records related to fuel storage for the following addresses:

- 61 Bill Leathem Drive, Ottawa, ON
- 99 Bill Leathem Drive, Ottawa, ON
- 2 Leikin Drive, Ottawa, ON
- 20 Leikin Drive, Ottawa, ON
- 2852 Merivale Road, Ottawa, ON

Please see the attached map.

Thanks and have a great day!

Michelle Gluck, P. Geo. (ON)

Geoscientist

Geosyntec Consultants International, Inc.

1243 Islington Ave., Suite 1201

Toronto, ON M8X 1Y9

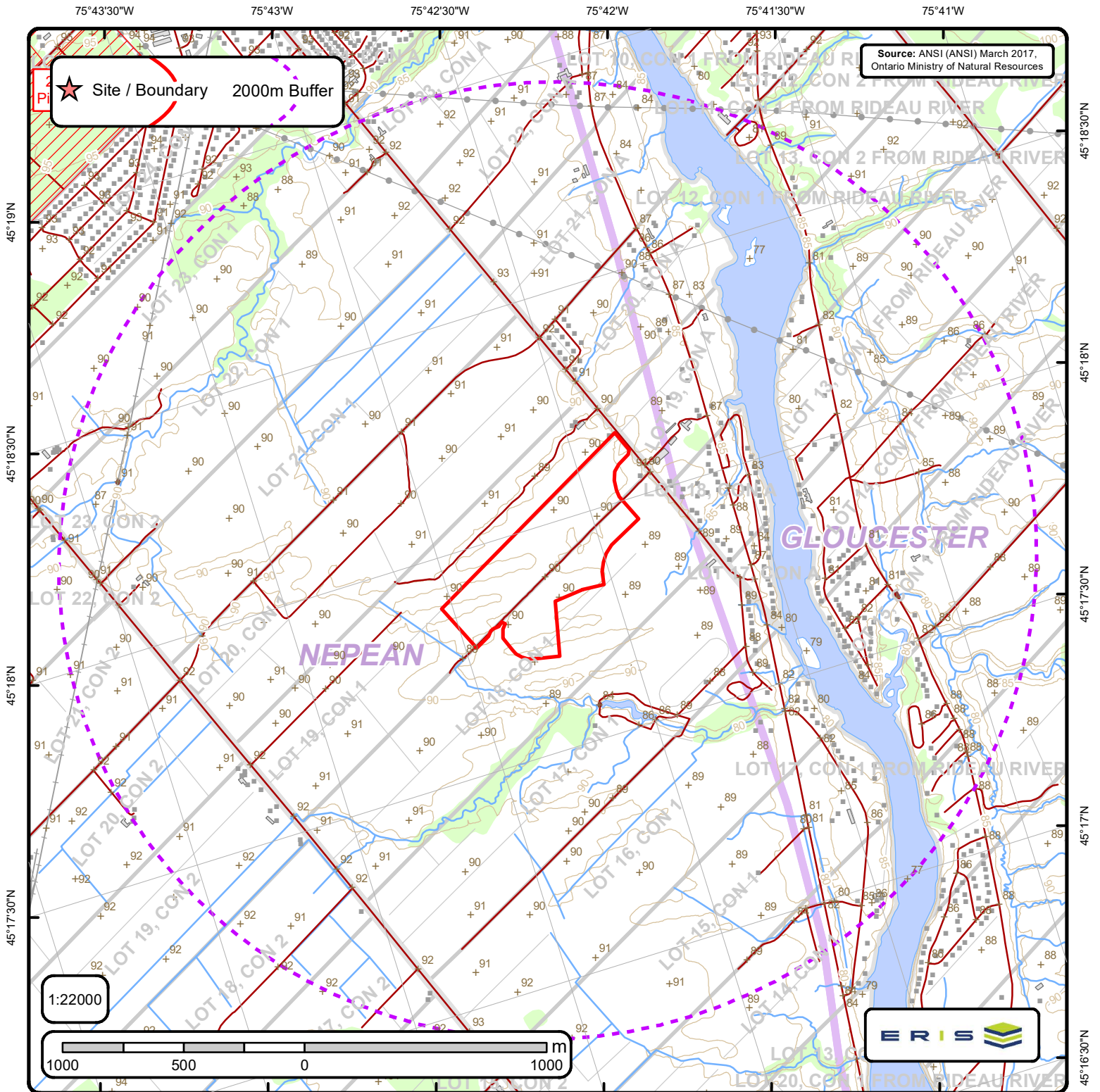
Phone: 416.916.1691

Mobile: 416.669.6213

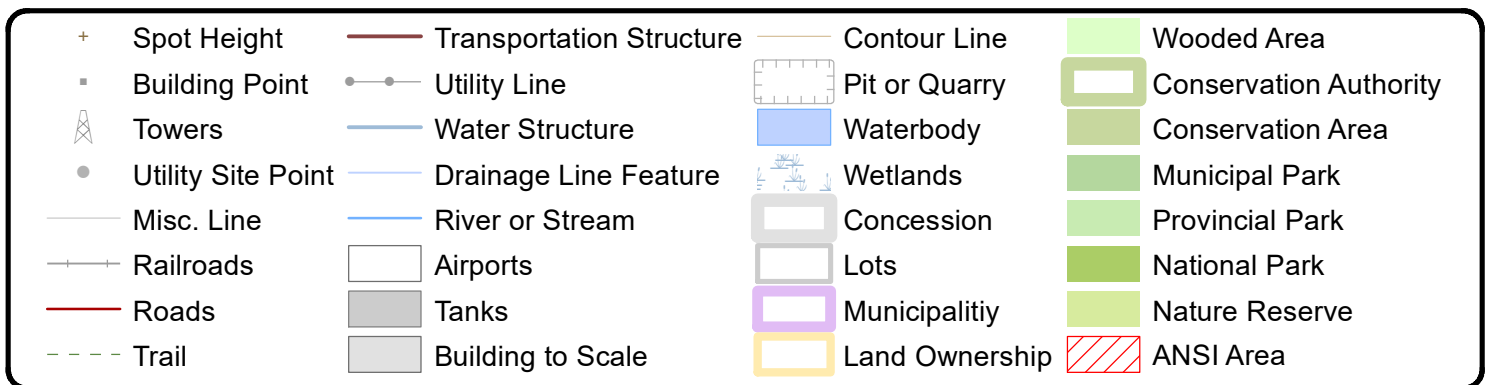
[GEOSYNTEC](#) | [SIREM](#) | [SAVRON](#)

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APPENDIX F
ERIS MAPS



Area of Natural & Scientific Interest (ANSI) Order No. 21041400366





ANSI Report

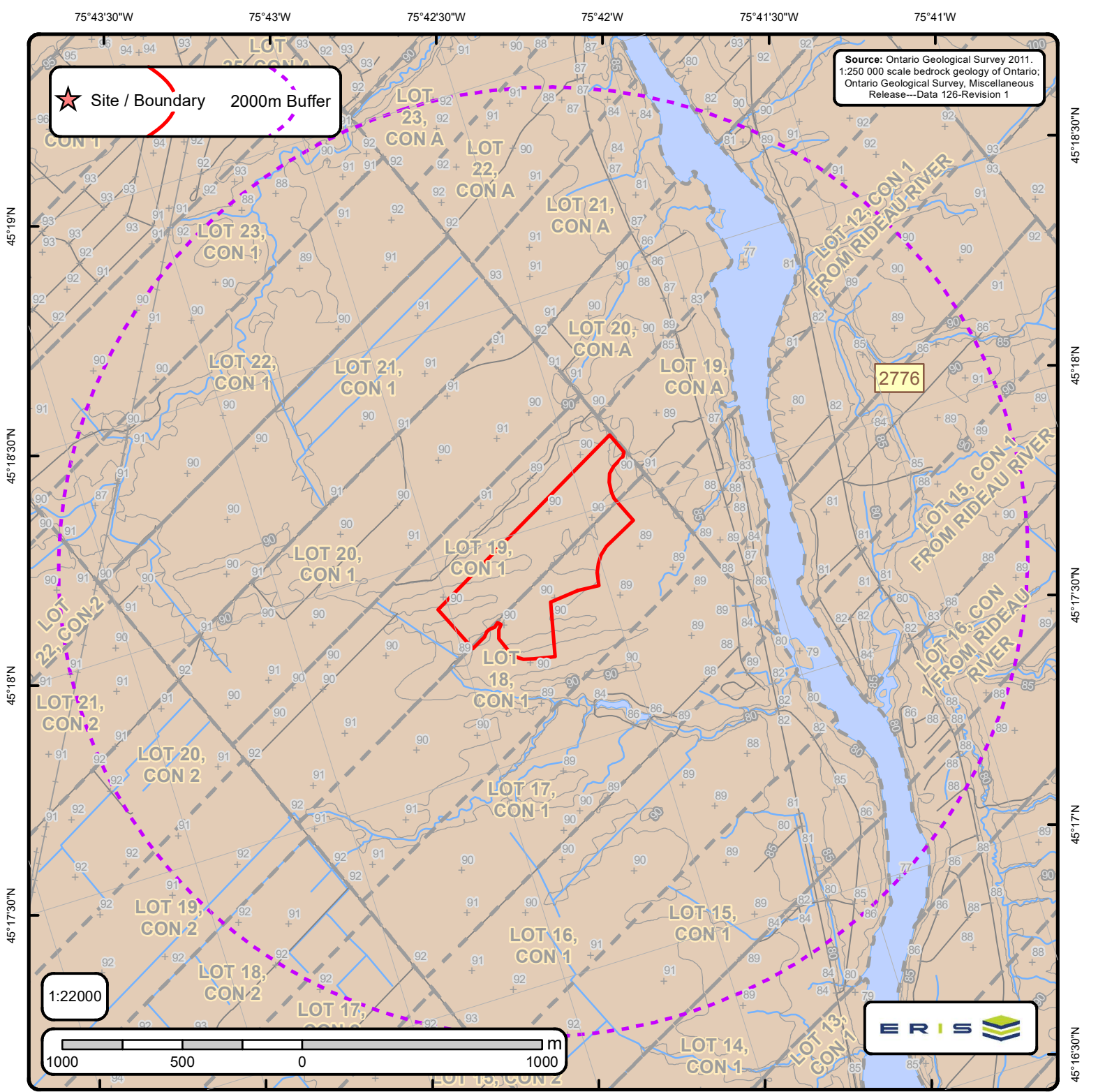
ANSI Units Found within 2000 m of

99 Bill Leathem Drive and Portions of 2 and 20 Leikin Drive

Page 1
Order No.
21041400366



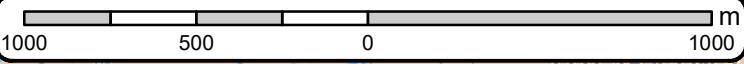
No ANSI units found within search area.



Source: Ontario Geological Survey 2011.
 1:250 000 scale bedrock geology of Ontario;
 Ontario Geological Survey, Miscellaneous
 Release—Data 126-Revision 1

★ Site / Boundary 2000m Buffer

1:22000



Bedrock Geology of Ontario

Order No. 21041400366

Bedrock Geology Lines		Dikes		C Lines	
+ Spot Height	CONTACT, GEOPHYSICAL, TREND, INTERPRETED	Abitibi mafic dike	Marathon mafic dike	FOLD, ANTICLINE, INTERPRETED, UNKNOWN GENERATION	▲ Kimberlite
— Roads	CONTACT, SHARP, TREND, INTERPRETED	Biscotasing mafic dike	Matachewan mafic dike	FOLD, ANTICLINE, OBSERVED, UNKNOWN GENERATION	
— Contour Lines	CONTACT, SHARP, TREND, OBSERVED	Empey Lake mafic dike	Mine Centre mafic dike	FOLD, ANTICLINE, SYNFORMAL, INTERPRETED, SECOND GENERATION	
— Streams	FAULT, DEXTRAL HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION	Felsic to intermediate intrusive rocks	Molson mafic dike	FOLD, ANTIFORM, INTERPRETED, UNKNOWN GENERATION	
— Railroads	FAULT, PROJECTED FAULT, INTERPRETED, UNKNOWN GENERATION	Fort Frances mafic dike	Pickle Crow mafic dike (Molson swarm) normal	FOLD, SYNCLINE, INTERPRETED, UNKNOWN GENERATION	
— Lots	FAULT, SINISTRAL HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION	Frontenac mafic dike	Pickle Crow mafic dike (Molson swarm) reverse	FOLD, SYNCLINE, OBSERVED, UNKNOWN GENERATION	
— Pit or Quarry	FAULT, SINISTRAL HORIZONTAL COMPONENT, TREND, OBSERVED, UNKNOWN GENERATION	Grenville mafic dike	Rideau mafic dike	FOLD, SYNFORM, INTERPRETED, UNKNOWN GENERATION	
— Airports	FAULT, UNKNOWN HORIZONTAL COMPONENT, INCLINED-REVERSE, INTERPRETED, UNKNOWN GENERATION	Logan and Nipigon mafic sills	Sudbury mafic dike		
— Waterbody	FAULT, UNKNOWN HORIZONTAL COMPONENT, INCLINED-REVERSE, OBSERVED, UNKNOWN GENERATION	Mackenzie mafic dike	Ultramafic, gabbroic and granophytic intrusions		
— Wetlands	FAULT, UNKNOWN HORIZONTAL COMPONENT, TREND, INTERPRETED, UNKNOWN GENERATION	Mafic dikes of uncertain age	Unsubdivided mafic dike		
	FAULT, UNKNOWN HORIZONTAL COMPONENT, TREND, OBSERVED, UNKNOWN GENERATION	Mafic sills and dikes	Unsubdivided mafic dike (Keweenaw age)		
	NEATLINE	Marathon mafic dike	unknown		
	ONTARIO BORDER				
	Marble, chert, iron formation, minor metavolcanic rocks				



Bedrock Geology Report

Bedrock Geology units found within 2000 m of
99 Bill Leathem Drive and Portions of 2 and 20 Leikin Drive

Page 1
Order No.
21041400366



ID: 2776 | **Unit Name:** |
Type (All): 53 | **Type (Primary):** 53 | **Type (Secondary):** | **Type (Tertiary):** | **Rock Type (Primary):** Dolostone, sandstone | **Strata (Primary):** Beekmantown Group | **Super Eon (Primary):** | **Eon (Primary):** PHANEROZOIC (Present to 542.0 Ma) | **Era (Primary):** PALEOZOIC (251.0 Ma to 542.0 Ma) | **Period (Primary):** ORDOVICIAN (443.7 Ma to 488.3 Ma) | **Epoch (Primary):** LOWER ORDOVICIAN | **Province (Primary):**



ID - Unit ID **Unit Name** - Generalized geological unit classification

Type (All) - The geological unit number(s) or code(s) for all rock types present in an individual polygon.

Type (Primary) - The primary geological unit number or code for the primary rock type in an individual polygon

Type (Secondary) - The secondary geological unit number or code for the secondary rock type, if present, in an individual polygon

Type (Tertiary) - The tertiary geological unit number or code for the tertiary rock type, if present, in an individual polygon

Rock Type (Primary) - Rock type or sub-unit description

Status (Primary) - The Stratigraphic unit. Divided into:

Supergroup (two or more groups and lone formations)
Group (two or more formations)
Formation (primary unit of lithostratigraphy)
Member (named lithologic subdivision of a formation)
Bed (named distinctive layer in a member or formation)

Super Eon (Primary) - A name given to the largest defined unit of geological time, divided into Eons. Unique values which this field may contain (Domains) are:

PRECAMBRIAN (0.542 Ga to <3.85 Ga)

Eon (Primary) - A name given to a defined unit of geological time, divided into Eras. Unique values which this field may contain (Domains) are:

ARCHEAN (2.5 Ga to <3.85 Ga)
PROTEROZOIC (0.542 Ga to 2.50 Ga)
PHANEROZOIC (Present to 542.0 Ma)

Era (Primary) - A name given to a defined unit of geological time, divided into Periods. Each era on the scale is separated from the next by a major event or change. Unique values which this field may contain (Domains) are:

MESOARCHEAN (2.8 Ga to 3.2 Ga)	MESOPROTEROZOIC (1.0 Ga to 1.6 Ga)
NEO-TO MESOARCHEAN (2.5 Ga to 3.2 Ga)	EARLY PALEOZOIC TO NEOPROTEROZOIC (443.7 Ma to 1.0 Ga)
NEOARCHEAN (2.5 Ga to 2.8 Ga)	NEO-TO MESOPROTEROZOIC (0.542 Ga to 1.6 Ga)
PALEOPROTEROZOIC (1.6 Ga to 2.5 Ga)	PALEOZOIC (251.0 Ma to 542.0 Ma)
MESO-TO PALEOPROTEROZOIC (1.0 Ga to 2.5 Ga)	MESOZOIC (65.5 Ma to 251.0 Ma)

Period (Primary) - A name given to a defined unit of geological time, divided into Epochs. Unique values which this field may contain (Domains) are:

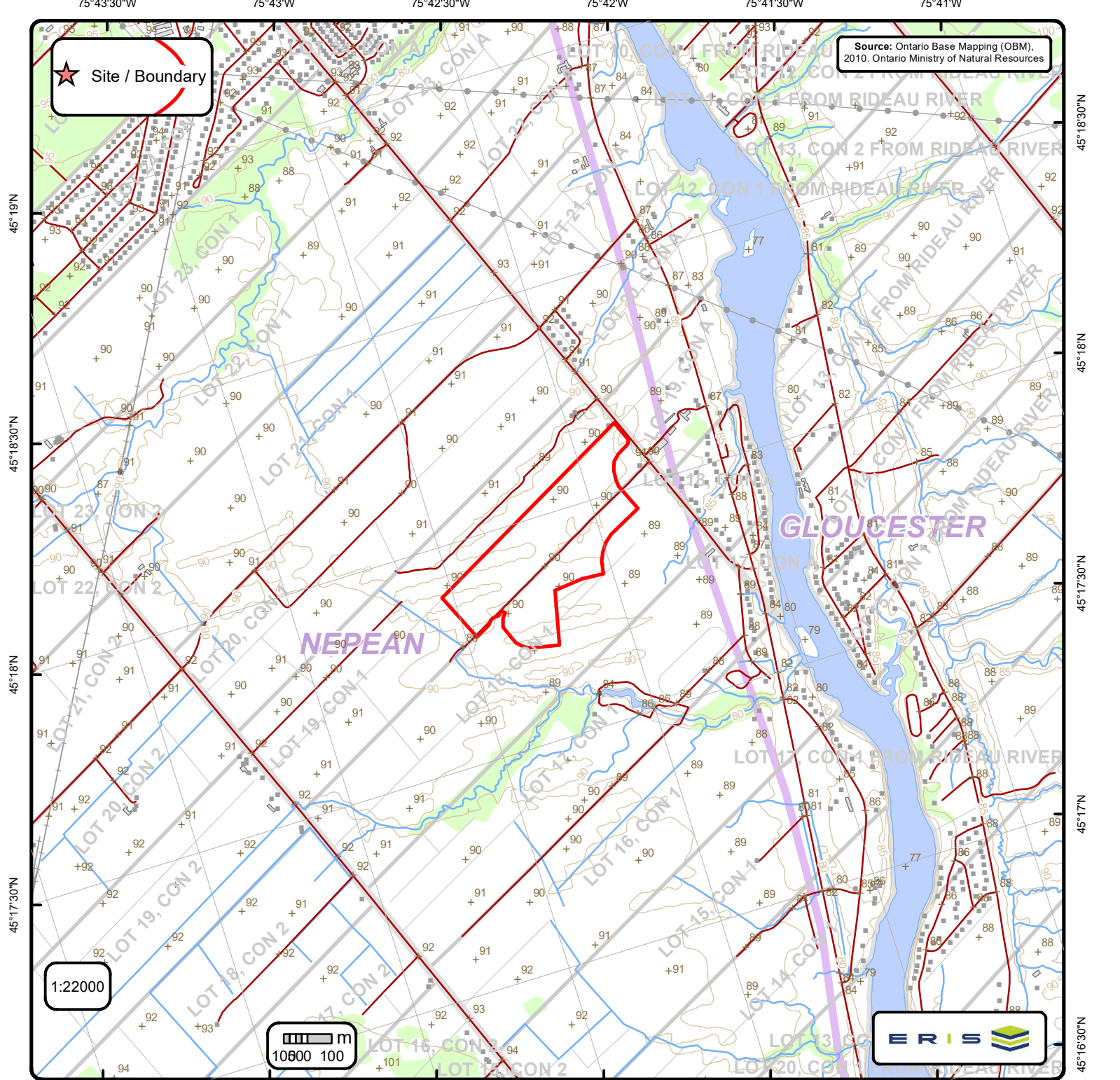
CAMBRIAN (488.3 Ma to 542.0 Ma)
ORDOVICIAN (443.7 Ma to 488.3 Ma)
SILURIAN (416.0 Ma to 443.7 Ma)
DEVONIAN (359.2 Ma to 416.0 Ma)
MISSISSIPPIAN TO DEVONIAN (318.1 Ma to 416.0 Ma)
JURASSIC (145.5 Ma to 199.6 Ma)
CRETACEOUS AND JURASSIC (65.5 Ma to 199.6 Ma)

Epoch (Primary) - A name given to a defined unit of geological time. Unique values which this field may contain (Domains) are:

LOWER ORDOVICIAN	UPPER SILURIAN
MIDDLE ORDOVICIAN	LOWER DEVONIAN
UPPER ORDOVICIAN	MIDDLE DEVONIAN
MIDDLE AND LOWER SILURIAN	UPPER DEVONIAN
UPPER SILURIAN TO LOWER DEVONIAN	LOWER CRETACEOUS AND MIDDLE JURASSIC

Province (Primary) - The Geological Province the geological unit is in. Unique values which this field may contain (Domains) are:

SUPERIOR
SOUTHERN
SUPERIOR
GRENVILLE



Ontario Base Mapping (OBM) Data

Order No. 21041400366

+ Spot Height (metre)	— Transportation Structure	— Contour Line	Wooded Area
■ Building Point	● Utility Line	□ Pit or Quarry	Conservation Authority
⚡ Towers	— Water Structure	■ Waterbody	Conservation Area
● Utility Site Point	— Drainage Line Feature	■ Wetlands	Municipal Park
— Misc. Line	— River or Stream	□ Concession	Provincial Park
— Railroads	□ Airports	□ Lots	National Park
— Roads	■ Tanks	■ Municipality	Nature Reserve
- - - Trail	■ Building to Scale	■ Land Ownership	

75°43'30"W

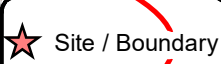
75°43'W

75°42'30"W

75°42'W

75°41'30"W

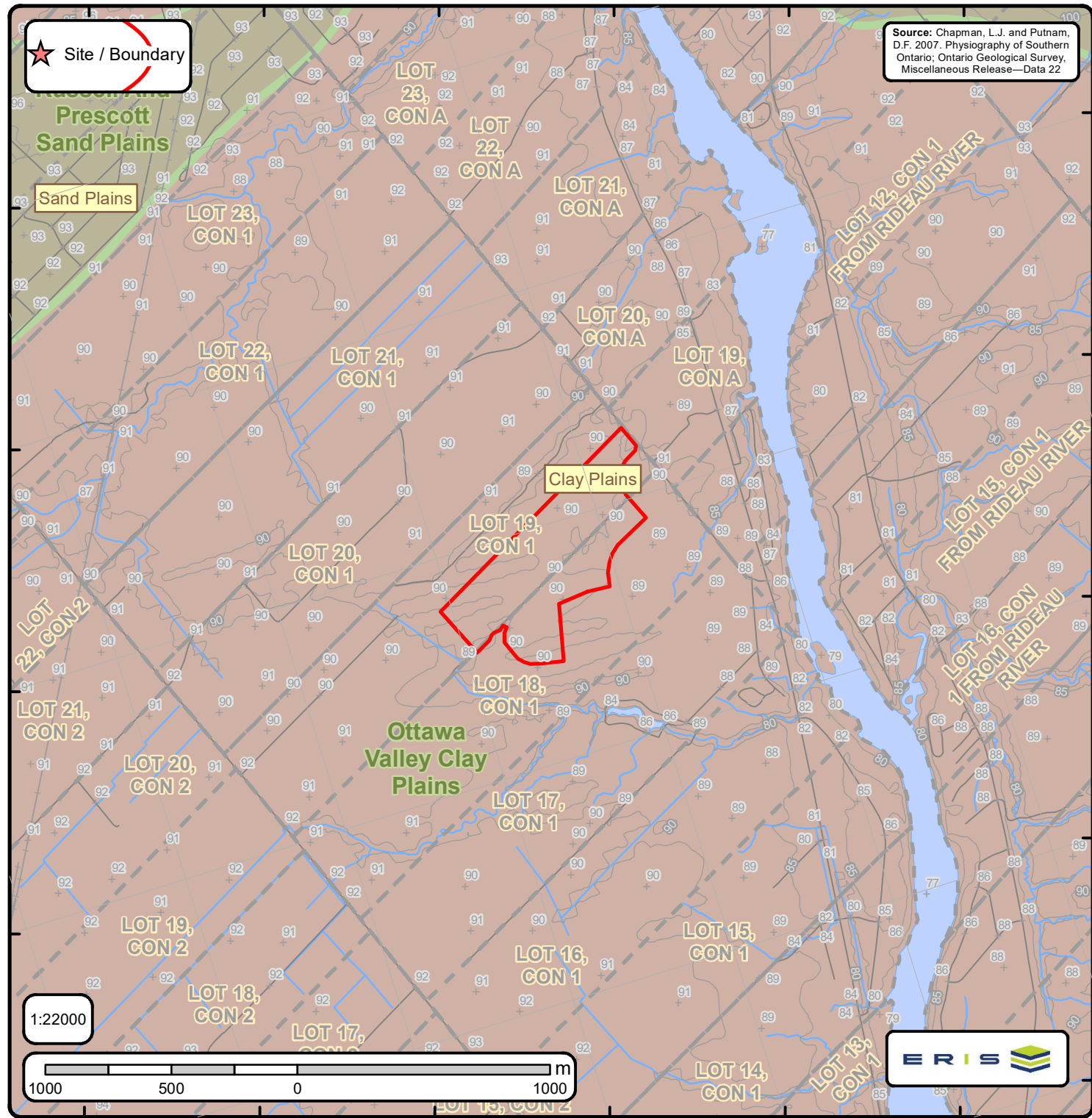
75°41'W



Source: Chapman, L.J. and Putnam, D.F. 2007. Physiography of Southern Ontario: Ontario Geological Survey, Miscellaneous Release—Data 22

45°19'N
45°18'30"N
45°18'N
45°17'30"N
45°17'N
45°16'30"N

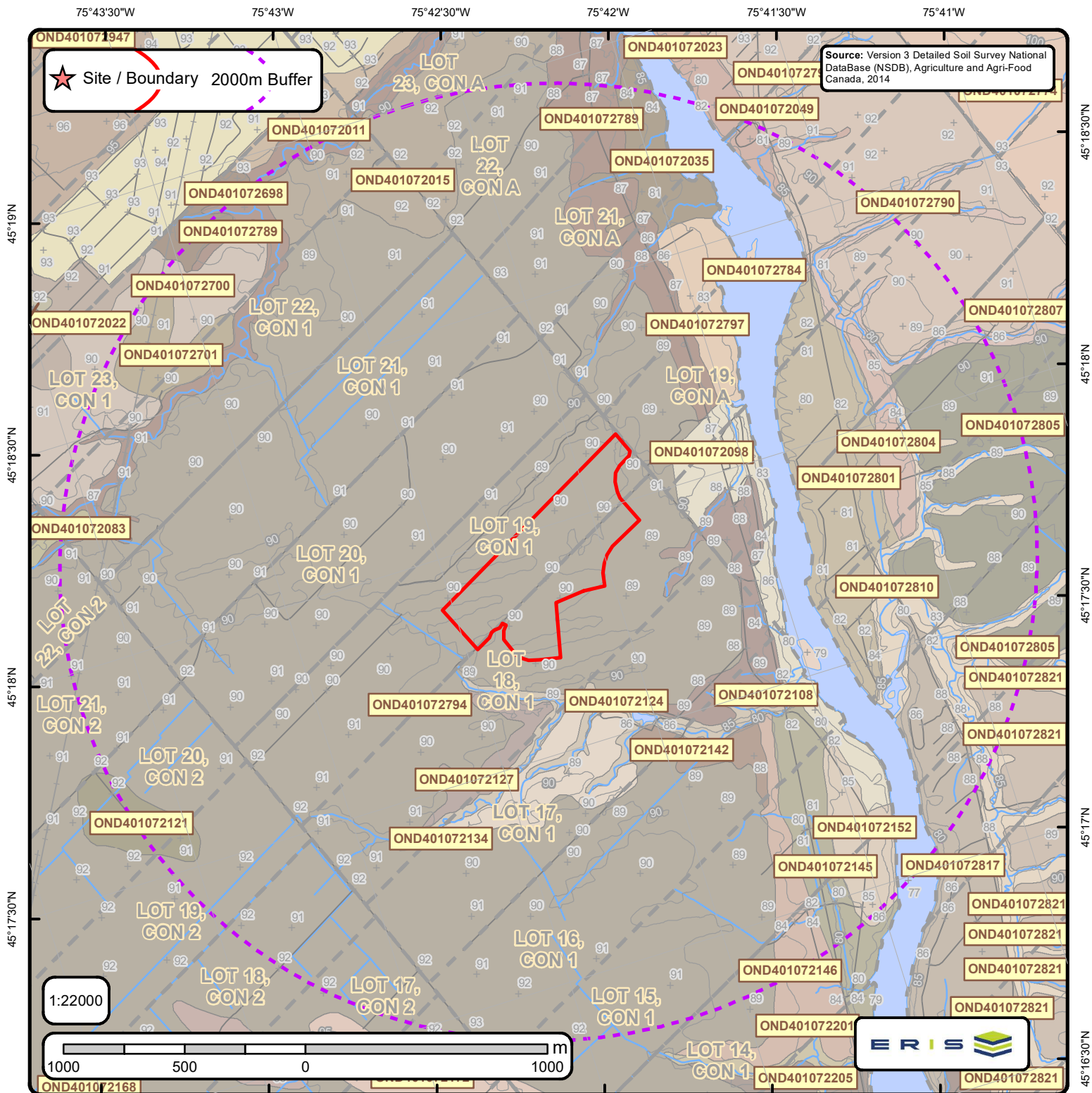
45°18'30"N
45°18'N
45°17'30"N
45°17'N
45°16'30"N



Physiography of Southern Ontario

Order No. 21041400366

+ Spot Height	— Lots	◆ Boulder Pavement	■ Bare Rock Ridges And Shallow Till	■ Peat And Muck
— Roads	▭ Pit or Quarry	◆ Dissected Terrain	■ Beaches	■ Sand Plains
— Railroads	▭ Airports	■ Mud Flow Scars	■ Bevelled Till Plains	■ Shale Plains
— Contour Lines	— Wetlands	▲ Sand Dunes	■ Clay Plains	■ Shallow Till And Rock Ridges
— Streams	■ Waterbody	— escarpment	■ Drumlins	■ Spillways
		— shorecliff	■ Escarpments	■ Till Moraines
		— shorecliff (weakly developed)	■ Eskers	■ Till Plains (Drumlinized)
	■ Physiography Regions		■ Kame Moraines	■ Till Plains (Undrumlinized)
			■ Limestone Plains	



Detailed Soil Survey (ON Soils)

Order No. 21041400366

+ Spot Height	--- Lots
--- Railroads	--- Pit or Quarry
--- Roads	--- Airports
--- Contour Lines	--- Wetlands
--- Streams	--- Waterbody



Soil ID: OND401072801

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONCST~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 28 | **Total Sand(%)** : 30 | **Total Silt(%)** : 59 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 2.6 | **pH in Calc Chloride** : 5.5 | **Saturated Hydraulic Conductivity(cm/h)** : 1.156 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-35 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 36 | **Total Sand(%)** : 38 | **Total Silt(%)** : 48 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.847 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 35-110 | **Horizon** : Cg | **Layer No** : 3 | **Very Fine Sand(%)** : 66 | **Total Sand(%)** : 67 | **Total Silt(%)** : 30 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 5.398 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072801

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONBIV~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-17 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 53 | **Total Silt(%)** : 34 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 2.052 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 17-33 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 30 | **Total Silt(%)** : 39 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.273 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 33-62 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 52 | **Total Silt(%)** : 28 | **Total Clay(%)** : 20 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.683 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 62-84 | **Horizon** : Ckg | **Layer No** : 4 | **Very Fine Sand(%)** : 45 | **Total Sand(%)** : 62 | **Total Silt(%)** : 26 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 1.597 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 84-100 | **Horizon** : Ckg | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 54 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.194 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072789

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONDHU~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Second CLI Limitation Subclass** : Presence of adverse Topography | **Depth(cm)** : 0-14 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 14 | **Total Silt(%)** : 57 | **Total Clay(%)** : 29 | **Organic Carbon(%)** : 2.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.353 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 14-46 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 18 | **Total Silt(%)** : 47 | **Total Clay(%)** : 35 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.272 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 46-110 | **Horizon** : Cgj | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 13 | **Total Silt(%)** : 43 | **Total Clay(%)** : 44 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.201 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 110-120 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 7 | **Total Silt(%)** : 47 | **Total Clay(%)** : 46 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.195 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401072805

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBDO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-12 | **Horizon** : Apg | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 14 | **Total Silt(%)** : 52 | **Total Clay(%)** : 34 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.223 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 12-38 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 46 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-70 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 47 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 70-105 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 8 | **Total Silt(%)** : 45 | **Total Clay(%)** : 47 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072804

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONCRP~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : clay loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-28 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 22 | **Total Sand(%)** : 28 | **Total Silt(%)** : 46 | **Total Clay(%)** : 26 | **Organic Carbon(%)** : 3.5 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 0.568 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 28-43 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 21 | **Total Silt(%)** : 48 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.288 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 43-70 | **Horizon** : Bmgj | **Layer No** : 3 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 20 | **Total Silt(%)** : 49 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.287 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 70-95 | **Horizon** : BCg | **Layer No** : 4 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 17 | **Total Silt(%)** : 50 | **Total Clay(%)** : 33 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 1.932 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 95-115 | **Horizon** : Cg | **Layer No** : 5 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 18 | **Total Silt(%)** : 48 | **Total Clay(%)** : 34 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.214 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072804

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONNGW~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-25 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 43 | **Total Silt(%)** : 41 | **Total Clay(%)** : 16 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.375 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-37 | **Horizon** : Bgj | **Layer No** : 2 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 45 | **Total Silt(%)** : 40 | **Total Clay(%)** : 15 | **Organic Carbon(%)** : 3.3 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.752 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 37-100 | **Horizon** : Cg | **Layer No** : 3 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 20 | **Total Silt(%)** : 63 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.29 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401072784

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZZZ~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : -- | **Layer No** : 1 | **Very Fine Sand(%)** : -9 | **Total Sand(%)** : -9 | **Total Silt(%)** : -9 | **Total Clay(%)** : -9 | **Organic Carbon(%)** : None | **pH in Calc Chloride** : None | **Saturated Hydraulic Conductivity(cm/h)** : None | **Electrical Conductivity(dS/m)** : None |

Soil ID: OND401072146

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONBDO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-12 | **Horizon** : Apg | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 14 | **Total Silt(%)** : 52 | **Total Clay(%)** : 34 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.223 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 12-38 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 46 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 38-70 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 47 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 70-105 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 8 | **Total Silt(%)** : 45 | **Total Clay(%)** : 47 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072146

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONDHU~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Second CLI Limitation Subclass** : Presence of adverse Topography | **Depth(cm)** : 0-14 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 14 | **Total Silt(%)** : 57 | **Total Clay(%)** : 29 | **Organic Carbon(%)** : 2.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.353 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 14-46 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 18 | **Total Silt(%)** : 47 | **Total Clay(%)** : 35 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.272 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 46-110 | **Horizon** : Cgj | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 13 | **Total Silt(%)** : 43 | **Total Clay(%)** : 44 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.201 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 110-120 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 7 | **Total Silt(%)** : 47 | **Total Clay(%)** : 46 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.195 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401072023

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONRDU~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-23 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 5 | **Total Silt(%)** : 27 | **Total Clay(%)** : 68 | **Organic Carbon(%)** : 1.9 | **pH in Calc Chloride** : 5.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.31 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 23-29 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 3 | **Total Silt(%)** : 21 | **Total Clay(%)** : 76 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.246 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 29-37 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 18 | **Total Clay(%)** : 81 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.246 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 37-100 | **Horizon** : Cgj | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 22 | **Total Clay(%)** : 77 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.192 | **Electrical Conductivity(dS/m)** : 0

Soil ID: OND401072023

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONBIV~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-17 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 53 | **Total Silt(%)** : 34 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 2.052 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 17-33 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 30 | **Total Silt(%)** : 39 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.273 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 33-62 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 52 | **Total Silt(%)** : 28 | **Total Clay(%)** : 20 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.683 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 62-84 | **Horizon** : Ckg | **Layer No** : 4 | **Very Fine Sand(%)** : 45 | **Total Sand(%)** : 62 | **Total Silt(%)** : 26 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 1.597 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 84-100 | **Horizon** : Ckg | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 54 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.194 | **Electrical Conductivity(dS/m)** : 0

Soil ID: OND401072145

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONSTA~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 17 | **Total Silt(%)** : 40 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 2.8 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.385 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 20-50 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 41 | **Total Clay(%)** : 55 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 5.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.247 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 50-75 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 5 | **Total Silt(%)** : 34 | **Total Clay(%)** : 61 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.249 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 75-100 | **Horizon** : Cgk | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 53 | **Total Clay(%)** : 46 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.5 | **Saturated Hydraulic Conductivity(cm/h)** : 0.192 | **Electrical Conductivity(dS/m)** : 0



Soil ID: OND401072145

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONZSC~~~~~N | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 7.0 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 15 | **Total Silt(%)** : 60 | **Total Clay(%)** : 25 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.589 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072142

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONDHU~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-14 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 14 | **Total Silt(%)** : 57 | **Total Clay(%)** : 29 | **Organic Carbon(%)** : 2.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.353 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 14-46 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 18 | **Total Silt(%)** : 47 | **Total Clay(%)** : 35 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.272 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 46-110 | **Horizon** : Cgj | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 13 | **Total Silt(%)** : 43 | **Total Clay(%)** : 44 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.201 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 110-120 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 7 | **Total Silt(%)** : 47 | **Total Clay(%)** : 46 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.195 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072124

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZER~~~~~N | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 37.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No capability for agriculture. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 15 | **Total Silt(%)** : 60 | **Total Clay(%)** : 25 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.589 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401072127

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONDHU~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-14 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 14 | **Total Silt(%)** : 57 | **Total Clay(%)** : 29 | **Organic Carbon(%)** : 2.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.353 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 14-46 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 18 | **Total Silt(%)** : 47 | **Total Clay(%)** : 35 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.272 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 46-110 | **Horizon** : Cgj | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 13 | **Total Silt(%)** : 43 | **Total Clay(%)** : 44 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.201 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 110-120 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 7 | **Total Silt(%)** : 47 | **Total Clay(%)** : 46 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.195 | **Electrical Conductivity(dS/m)** : 0

Soil ID: OND401072121

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONCEGM~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-28 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 17 | **Total Silt(%)** : 48 | **Total Clay(%)** : 35 | **Organic Carbon(%)** : 2.8 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 0.404 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 28-45 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 20 | **Total Silt(%)** : 55 | **Total Clay(%)** : 25 | **Organic Carbon(%)** : 1.9 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.293 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 45-56 | **Horizon** : Ae | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 19 | **Total Silt(%)** : 64 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 4.2 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.306 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 56-69 | **Horizon** : Btj | **Layer No** : 4 | **Very Fine Sand(%)** : 6 | **Total Sand(%)** : 21 | **Total Silt(%)** : 69 | **Total Clay(%)** : 10 | **Organic Carbon(%)** : 1.6 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.504 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 69-85 | **Horizon** : BCg | **Layer No** : 5 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 16 | **Total Silt(%)** : 64 | **Total Clay(%)** : 20 | **Organic Carbon(%)** : 0.7 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.248 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 85-100 | **Horizon** : Cg | **Layer No** : 6 | **Very Fine Sand(%)** : 6 | **Total Sand(%)** : 10 | **Total Silt(%)** : 77 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.237 | **Electrical Conductivity(dS/m)** : 0

Soil ID: OND401072108

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONDHU~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Second CLI Limitation Subclass** : Presence of adverse Topography | **Depth(cm)** : 0-14 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 14 | **Total Silt(%)** : 57 | **Total Clay(%)** : 29 | **Organic Carbon(%)** : 2.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.353 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 14-46 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 18 | **Total Silt(%)** : 47 | **Total Clay(%)** : 35 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.272 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 46-110 | **Horizon** : Cgj | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 13 | **Total Silt(%)** : 43 | **Total Clay(%)** : 44 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.201 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 110-120 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 7 | **Total Silt(%)** : 47 | **Total Clay(%)** : 46 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.195 | **Electrical Conductivity(dS/m)** : 0



Soil ID: OND401072083

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONCLA~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-15 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 3 | **Total Sand(%)** : 91 | **Total Silt(%)** : 5 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 1.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 6.934 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 15-25 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 96 | **Total Silt(%)** : 2 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 1.0 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 8.209 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-66 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 3 | **Total Sand(%)** : 95 | **Total Silt(%)** : 3 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.2 | **Saturated Hydraulic Conductivity(cm/h)** : 8.325 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 66-82 | **Horizon** : BC | **Layer No** : 4 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 97 | **Total Silt(%)** : 2 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 8.134 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 82-100 | **Horizon** : C | **Layer No** : 5 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 96 | **Total Silt(%)** : 2 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 6.96 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072083

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONALL~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 82 | **Total Silt(%)** : 10 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 5.3 | **Saturated Hydraulic Conductivity(cm/h)** : 4.383 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-41 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 87 | **Total Silt(%)** : 9 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.398 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 41-55 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 28 | **Total Sand(%)** : 67 | **Total Silt(%)** : 14 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.197 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 55-100 | **Horizon** : Ckj | **Layer No** : 4 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 12 | **Total Silt(%)** : 34 | **Total Clay(%)** : 54 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072810

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZER~~~~~N | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 37.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No capability for agriculture. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 15 | **Total Silt(%)** : 60 | **Total Clay(%)** : 25 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.589 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401072698

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONALL~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 82 | **Total Silt(%)** : 10 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 5.3 | **Saturated Hydraulic Conductivity(cm/h)** : 4.383 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-41 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 87 | **Total Silt(%)** : 9 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.398 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 41-55 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 28 | **Total Sand(%)** : 67 | **Total Silt(%)** : 14 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.197 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 55-100 | **Horizon** : Ckj | **Layer No** : 4 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 12 | **Total Silt(%)** : 34 | **Total Clay(%)** : 54 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072698

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONSSM~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Very severe limitations preclude annual cultivation; improvements feasible. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-21 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 29 | **Total Sand(%)** : 75 | **Total Silt(%)** : 16 | **Total Clay(%)** : 9 | **Organic Carbon(%)** : 2.7 | **pH in Calc Chloride** : 5.1 | **Saturated Hydraulic Conductivity(cm/h)** : 4.347 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 21-39 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 27 | **Total Sand(%)** : 91 | **Total Silt(%)** : 7 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.7 | **pH in Calc Chloride** : 5.0 | **Saturated Hydraulic Conductivity(cm/h)** : 7.051 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 39-52 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 20 | **Total Sand(%)** : 97 | **Total Silt(%)** : 2 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.2 | **Saturated Hydraulic Conductivity(cm/h)** : 8.134 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 52-69 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 26 | **Total Sand(%)** : 93 | **Total Silt(%)** : 4 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.2 | **Saturated Hydraulic Conductivity(cm/h)** : 6.155 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 69-100 | **Horizon** : Cg | **Layer No** : 5 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 96 | **Total Silt(%)** : 3 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 4.7 | **Saturated Hydraulic Conductivity(cm/h)** : 7.836 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072799

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZER~~~~~N | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 37.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : No capability for agriculture. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-100 | **Horizon** : Ah | **Layer No** : 1 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 15 | **Total Silt(%)** : 60 | **Total Clay(%)** : 25 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.589 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401072817

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONBDO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-12 | **Horizon** : Apg | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 14 | **Total Silt(%)** : 52 | **Total Clay(%)** : 34 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.223 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 12-38 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 46 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 38-70 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 47 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 70-105 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 8 | **Total Silt(%)** : 45 | **Total Clay(%)** : 47 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072817

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONBIV~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-17 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 53 | **Total Silt(%)** : 34 | **Total Clay(%)** : 13 | **Organic Carbon(%)** : 3.1 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 2.052 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 17-33 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 30 | **Total Silt(%)** : 39 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.273 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 33-62 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 52 | **Total Silt(%)** : 28 | **Total Clay(%)** : 20 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.683 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 62-84 | **Horizon** : Ckg | **Layer No** : 4 | **Very Fine Sand(%)** : 45 | **Total Sand(%)** : 62 | **Total Silt(%)** : 26 | **Total Clay(%)** : 12 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 1.597 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 84-100 | **Horizon** : Ckg | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 4 | **Total Silt(%)** : 54 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.194 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072797

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONGVI~~~~~A | **Surface Stoniness Class** : Moderately stony | **Slop Steepness(%)** : 22.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : Very severe limitations preclude annual cultivation; improvements feasible. | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-19 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 59 | **Total Silt(%)** : 30 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 2.3 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 2.565 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 19-35 | **Horizon** : Ap | **Layer No** : 2 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 62 | **Total Silt(%)** : 33 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 5.087 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 35-55 | **Horizon** : Ae | **Layer No** : 3 | **Very Fine Sand(%)** : 21 | **Total Sand(%)** : 63 | **Total Silt(%)** : 32 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 4.441 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 55-77 | **Horizon** : Bt | **Layer No** : 4 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 56 | **Total Silt(%)** : 26 | **Total Clay(%)** : 18 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.856 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 77-92 | **Horizon** : BC | **Layer No** : 5 | **Very Fine Sand(%)** : 20 | **Total Sand(%)** : 61 | **Total Silt(%)** : 28 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.805 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 92-100 | **Horizon** : Ck | **Layer No** : 6 | **Very Fine Sand(%)** : 22 | **Total Sand(%)** : 65 | **Total Silt(%)** : 30 | **Total Clay(%)** : 5 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 3.082 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401072797

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONRDU~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : clay | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-23 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 5 | **Total Silt(%)** : 27 | **Total Clay(%)** : 68 | **Organic Carbon(%)** : 1.9 | **pH in Calc Chloride** : 5.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.31 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 23-29 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 3 | **Total Silt(%)** : 21 | **Total Clay(%)** : 76 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 6.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.246 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 29-37 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 18 | **Total Clay(%)** : 81 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.246 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 37-100 | **Horizon** : Cgj | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 1 | **Total Silt(%)** : 22 | **Total Clay(%)** : 77 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.192 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072794

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBDO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-12 | **Horizon** : Apg | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 14 | **Total Silt(%)** : 52 | **Total Clay(%)** : 34 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.223 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 12-38 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 46 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 38-70 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 47 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 70-105 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 8 | **Total Silt(%)** : 45 | **Total Clay(%)** : 47 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072790

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBDO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-12 | **Horizon** : Apg | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 14 | **Total Silt(%)** : 52 | **Total Clay(%)** : 34 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.223 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 12-38 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 46 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 38-70 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 47 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 70-105 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 8 | **Total Silt(%)** : 45 | **Total Clay(%)** : 47 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401072098

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONZUN~~~~~N | **Surface Stoniness Class** : Not Applicable | **Slop Steepness(%)** : None | **Slop Length(m)** : -9 | **Drainage** : Not Applicable | **Hydrological Soil Groups** : None | **Soil Texture of A Horizon** : None | **Field Crops Capability** : None | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Soil Name** : UNCLASSIFIED | **Water Table Characteristics** : Unspecified period | **Soil Drainage Class** : Not applicable | **Kind of Surface Material** : Unclassified | **Layer that Restricts Root Growth** : No root restricting layer | **Type of Root Restricting Layer** : n/a | **Parent Material 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Mode of Deposition 1|2|3** : Not Applicable; Not Applicable; Not Applicable | **Parent Material Chemical Property 1|2|3** : Not Applicable; Not Applicable; Not Applicable |

Soil ID: OND401072035

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONPPV~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-15 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 41 | **Total Sand(%)** : 52 | **Total Silt(%)** : 31 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 3.2 | **pH in Calc Chloride** : 7.5 | **Saturated Hydraulic Conductivity(cm/h)** : 1.455 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 15-24 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 38 | **Total Sand(%)** : 53 | **Total Silt(%)** : 39 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 1.6 | **pH in Calc Chloride** : 6.2 | **Saturated Hydraulic Conductivity(cm/h)** : 2.56 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 24-50 | **Horizon** : Bmgj | **Layer No** : 3 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 73 | **Total Silt(%)** : 23 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.7 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 5.837 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 50-54 | **Horizon** : Bmgj | **Layer No** : 4 | **Very Fine Sand(%)** : 35 | **Total Sand(%)** : 78 | **Total Silt(%)** : 19 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 6.904 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 54-63 | **Horizon** : Bg | **Layer No** : 5 | **Very Fine Sand(%)** : 57 | **Total Sand(%)** : 61 | **Total Silt(%)** : 32 | **Total Clay(%)** : 7 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 2.989 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 63-86 | **Horizon** : Bg | **Layer No** : 6 | **Very Fine Sand(%)** : 28 | **Total Sand(%)** : 56 | **Total Silt(%)** : 33 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 1.634 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 86-100 | **Horizon** : Cg | **Layer No** : 7 | **Very Fine Sand(%)** : 32 | **Total Sand(%)** : 37 | **Total Silt(%)** : 47 | **Total Clay(%)** : 16 | **Organic Carbon(%)** : 0.0 |

Soil ID: OND401072035

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONCST~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-20 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 28 | **Total Sand(%)** : 30 | **Total Silt(%)** : 59 | **Total Clay(%)** : 11 | **Organic Carbon(%)** : 2.6 | **pH in Calc Chloride** : 5.5 | **Saturated Hydraulic Conductivity(cm/h)** : 1.156 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 20-35 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 36 | **Total Sand(%)** : 38 | **Total Silt(%)** : 48 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.847 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 35-110 | **Horizon** : Cg | **Layer No** : 3 | **Very Fine Sand(%)** : 66 | **Total Sand(%)** : 67 | **Total Silt(%)** : 30 | **Total Clay(%)** : 3 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 5.398 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401072011

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONCLA~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-15 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 3 | **Total Sand(%)** : 91 | **Total Silt(%)** : 5 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 1.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 6.934 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 15-25 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 96 | **Total Silt(%)** : 2 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 1.0 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 8.209 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-66 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 3 | **Total Sand(%)** : 95 | **Total Silt(%)** : 3 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.2 | **Saturated Hydraulic Conductivity(cm/h)** : 8.325 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 66-82 | **Horizon** : BC | **Layer No** : 4 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 97 | **Total Silt(%)** : 2 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 8.134 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 82-100 | **Horizon** : C | **Layer No** : 5 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 96 | **Total Silt(%)** : 2 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 6.96 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072011

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONMOK~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-26 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 16 | **Total Sand(%)** : 79 | **Total Silt(%)** : 15 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 2.2 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 5.871 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 26-42 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 21 | **Total Sand(%)** : 80 | **Total Silt(%)** : 14 | **Total Clay(%)** : 6 | **Organic Carbon(%)** : 1.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 4.747 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 42-66 | **Horizon** : C | **Layer No** : 3 | **Very Fine Sand(%)** : 23 | **Total Sand(%)** : 81 | **Total Silt(%)** : 15 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 5.129 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 66-98 | **Horizon** : C | **Layer No** : 4 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 19 | **Total Silt(%)** : 29 | **Total Clay(%)** : 52 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.203 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 98-109 | **Horizon** : C | **Layer No** : 5 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 3 | **Total Silt(%)** : 12 | **Total Clay(%)** : 85 | **Organic Carbon(%)** : 0.0 | **pH in Calc Chloride** : 7.2 | **Saturated Hydraulic Conductivity(cm/h)** : 0.193 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072015

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONCRP~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : clay loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-28 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 22 | **Total Sand(%)** : 28 | **Total Silt(%)** : 46 | **Total Clay(%)** : 26 | **Organic Carbon(%)** : 3.5 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 0.568 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 28-43 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 21 | **Total Silt(%)** : 48 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.288 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 43-70 | **Horizon** : Bmgj | **Layer No** : 3 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 20 | **Total Silt(%)** : 49 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.287 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 70-95 | **Horizon** : BCg | **Layer No** : 4 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 17 | **Total Silt(%)** : 50 | **Total Clay(%)** : 33 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 1.932 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 95-115 | **Horizon** : Cg | **Layer No** : 5 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 18 | **Total Silt(%)** : 48 | **Total Clay(%)** : 34 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.214 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401072015

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONNGW~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : silt loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-25 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 43 | **Total Silt(%)** : 41 | **Total Clay(%)** : 16 | **Organic Carbon(%)** : 3.9 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.375 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-37 | **Horizon** : Bgj | **Layer No** : 2 | **Very Fine Sand(%)** : 9 | **Total Sand(%)** : 45 | **Total Silt(%)** : 40 | **Total Clay(%)** : 15 | **Organic Carbon(%)** : 3.3 | **pH in Calc Chloride** : 7.4 | **Saturated Hydraulic Conductivity(cm/h)** : 0.752 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 37-100 | **Horizon** : Cg | **Layer No** : 3 | **Very Fine Sand(%)** : 5 | **Total Sand(%)** : 20 | **Total Silt(%)** : 63 | **Total Clay(%)** : 17 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.29 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072134

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONDHU~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Adverse soil structure (i.e. Depth of rooting zone is restricted) | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-14 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 14 | **Total Silt(%)** : 57 | **Total Clay(%)** : 29 | **Organic Carbon(%)** : 2.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.353 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 14-46 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 8 | **Total Sand(%)** : 18 | **Total Silt(%)** : 47 | **Total Clay(%)** : 35 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.272 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 46-110 | **Horizon** : Cgj | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 13 | **Total Silt(%)** : 43 | **Total Clay(%)** : 44 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.201 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 110-120 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 7 | **Total Silt(%)** : 47 | **Total Clay(%)** : 46 | **Organic Carbon(%)** : 0.1 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 0.195 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072152

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONMTD~~~~~A | **Surface Stoniness Class** : Slightly stony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with moderate infiltration rates when completely wetted. Soils are sandy loam soils with moderately fine to moderately coarse textures. | **Soil Texture of A Horizon** : medium - moderately fine loam | **Field Crops Capability** : moderate limitations on use for crops | **First CLI Limitation Subclass** : Presence of adverse Topography | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-22 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 35 | **Total Sand(%)** : 47 | **Total Silt(%)** : 39 | **Total Clay(%)** : 14 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 7.3 | **Saturated Hydraulic Conductivity(cm/h)** : 1.383 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 22-35 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 34 | **Total Sand(%)** : 49 | **Total Silt(%)** : 43 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.4 | **pH in Calc Chloride** : 7.6 | **Saturated Hydraulic Conductivity(cm/h)** : 2.361 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 35-100 | **Horizon** : Ckgj | **Layer No** : 3 | **Very Fine Sand(%)** : 12 | **Total Sand(%)** : 48 | **Total Silt(%)** : 44 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 7.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.46 | **Electrical Conductivity(dS/m)** : 0 |



Soil ID: OND401072152

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONCRP~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Imperfectly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : clay loam | **Field Crops Capability** : No significant limitations in use for Crops | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-28 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 22 | **Total Sand(%)** : 28 | **Total Silt(%)** : 46 | **Total Clay(%)** : 26 | **Organic Carbon(%)** : 3.5 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 0.568 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 28-43 | **Horizon** : Bmgj | **Layer No** : 2 | **Very Fine Sand(%)** : 19 | **Total Sand(%)** : 21 | **Total Silt(%)** : 48 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 0.6 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.288 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 43-70 | **Horizon** : Bmgj | **Layer No** : 3 | **Very Fine Sand(%)** : 18 | **Total Sand(%)** : 20 | **Total Silt(%)** : 49 | **Total Clay(%)** : 31 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.287 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 70-95 | **Horizon** : BCg | **Layer No** : 4 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 17 | **Total Silt(%)** : 50 | **Total Clay(%)** : 33 | **Organic Carbon(%)** : 0.3 | **pH in Calc Chloride** : 6.8 | **Saturated Hydraulic Conductivity(cm/h)** : 1.932 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 95-115 | **Horizon** : Cg | **Layer No** : 5 | **Very Fine Sand(%)** : 17 | **Total Sand(%)** : 18 | **Total Silt(%)** : 48 | **Total Clay(%)** : 34 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.214 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072700

Component No : 2 | **Components(%)** : 30 | **Soil Name ID** : ONCLA~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 3.5 | **Slop Length(m)** : -9 | **Drainage** : Well | **Hydrological Soil Groups** : Soils that have a low runoff potential and high infiltration rate, as the soils typically are sands and gravel. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : Severe limitations on use for crops. | **First CLI Limitation Subclass** : Low inherent soil Fertility | **Second CLI Limitation Subclass** : Low inherent Moisture holding capacity | **Depth(cm)** : 0-15 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 3 | **Total Sand(%)** : 91 | **Total Silt(%)** : 5 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 1.2 | **pH in Calc Chloride** : 7.0 | **Saturated Hydraulic Conductivity(cm/h)** : 6.934 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 15-25 | **Horizon** : Bm | **Layer No** : 2 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 96 | **Total Silt(%)** : 2 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 1.0 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 8.209 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 25-66 | **Horizon** : Bm | **Layer No** : 3 | **Very Fine Sand(%)** : 3 | **Total Sand(%)** : 95 | **Total Silt(%)** : 3 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.2 | **Saturated Hydraulic Conductivity(cm/h)** : 8.325 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 66-82 | **Horizon** : BC | **Layer No** : 4 | **Very Fine Sand(%)** : 2 | **Total Sand(%)** : 97 | **Total Silt(%)** : 2 | **Total Clay(%)** : 1 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 8.134 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 82-100 | **Horizon** : C | **Layer No** : 5 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 96 | **Total Silt(%)** : 2 | **Total Clay(%)** : 2 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.8 | **Saturated Hydraulic Conductivity(cm/h)** : 6.96 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072700

Component No : 1 | **Components(%)** : 70 | **Soil Name ID** : ONALL~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils with slow infiltration rates when thoroughly wetted and these soils typically are silty-loam soils with an impeding layer or soils with moderately fine to fine texture. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-27 | **Horizon** : Ap | **Layer No** : 1 | **Very Fine Sand(%)** : 31 | **Total Sand(%)** : 82 | **Total Silt(%)** : 10 | **Total Clay(%)** : 8 | **Organic Carbon(%)** : 1.5 | **pH in Calc Chloride** : 5.3 | **Saturated Hydraulic Conductivity(cm/h)** : 4.383 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 27-41 | **Horizon** : Bmg | **Layer No** : 2 | **Very Fine Sand(%)** : 40 | **Total Sand(%)** : 87 | **Total Silt(%)** : 9 | **Total Clay(%)** : 4 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.6 | **Saturated Hydraulic Conductivity(cm/h)** : 6.398 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 41-55 | **Horizon** : Bmg | **Layer No** : 3 | **Very Fine Sand(%)** : 28 | **Total Sand(%)** : 67 | **Total Silt(%)** : 14 | **Total Clay(%)** : 19 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 1.197 | **Electrical Conductivity(dS/m)** : 0 | **Depth(cm)** : 55-100 | **Horizon** : Ckj | **Layer No** : 4 | **Very Fine Sand(%)** : 4 | **Total Sand(%)** : 12 | **Total Silt(%)** : 34 | **Total Clay(%)** : 54 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.3 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

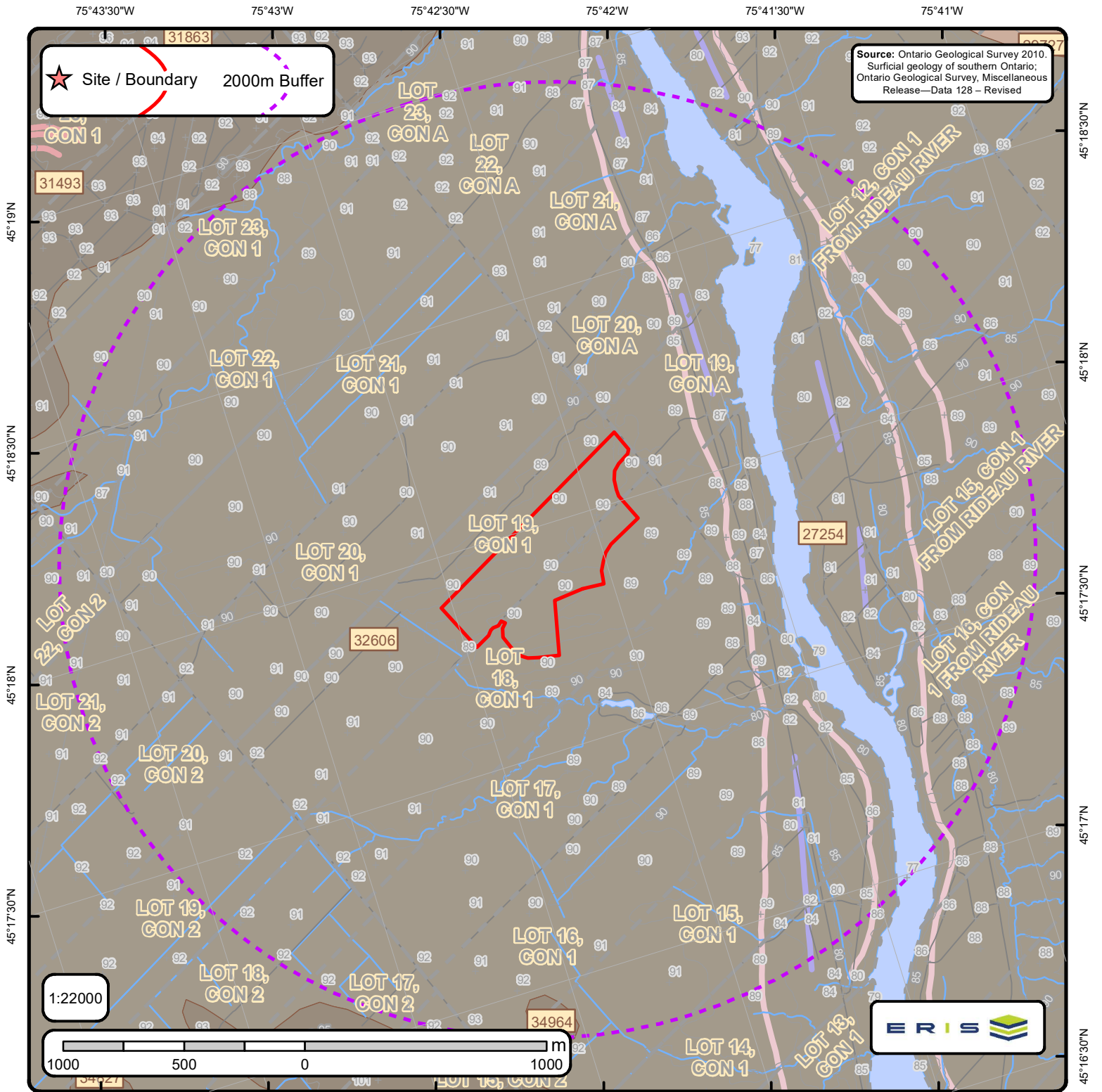


Soil ID: OND401072701

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBDO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-12 | **Horizon** : Apg | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 14 | **Total Silt(%)** : 52 | **Total Clay(%)** : 34 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.223 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 12-38 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 46 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 38-70 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 47 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 70-105 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 8 | **Total Silt(%)** : 45 | **Total Clay(%)** : 47 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |

Soil ID: OND401072821

Component No : 1 | **Components(%)** : 100 | **Soil Name ID** : ONBDO~~~~~A | **Surface Stoniness Class** : Nonstony | **Slop Steepness(%)** : 1.2 | **Slop Length(m)** : -9 | **Drainage** : Poorly | **Hydrological Soil Groups** : Soils have a high runoff potential and very slow infiltration rate when thoroughly wetted. Soils include clay soils with high swelling potential, soils in a permanent high water table and shallow soils over nearly impervious material. | **Soil Texture of A Horizon** : None | **Field Crops Capability** : moderately severe limitations on use for crops. | **First CLI Limitation Subclass** : None | **Second CLI Limitation Subclass** : None | **Depth(cm)** : 0-12 | **Horizon** : Apg | **Layer No** : 1 | **Very Fine Sand(%)** : 11 | **Total Sand(%)** : 14 | **Total Silt(%)** : 52 | **Total Clay(%)** : 34 | **Organic Carbon(%)** : 2.1 | **pH in Calc Chloride** : 5.7 | **Saturated Hydraulic Conductivity(cm/h)** : 0.223 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 12-38 | **Horizon** : Bg | **Layer No** : 2 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 46 | **Total Clay(%)** : 43 | **Organic Carbon(%)** : 0.5 | **pH in Calc Chloride** : 6.6 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 38-70 | **Horizon** : Bg | **Layer No** : 3 | **Very Fine Sand(%)** : 7 | **Total Sand(%)** : 11 | **Total Silt(%)** : 47 | **Total Clay(%)** : 42 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 6.9 | **Saturated Hydraulic Conductivity(cm/h)** : 0.211 | **Electrical Conductivity(dS/m)** : 0] | **Depth(cm)** : 70-105 | **Horizon** : Cg | **Layer No** : 4 | **Very Fine Sand(%)** : 0 | **Total Sand(%)** : 8 | **Total Silt(%)** : 45 | **Total Clay(%)** : 47 | **Organic Carbon(%)** : 0.2 | **pH in Calc Chloride** : 7.1 | **Saturated Hydraulic Conductivity(cm/h)** : 0.197 | **Electrical Conductivity(dS/m)** : 0 |



The Surficial Geology of Southern Ontario Order No. 21041400366

+	Spot Height	—	Streams		Dune		Beach		Escher		karst		pitsg
	Waterbody	—	Contour Lines		Lake		Bluff		Escher ND		linfeat		popup
	Wetlands	—	Roads		Rib		Crevasse		Fluvial DL		megarip		ribl
	Airports	—	Railroads		Scab		Crest		fluvndi		mfluvdl		slidel
	Pit or Quarry		Morains		Slide		End		iceberg		mfluvndi		slumpb
	Lots				NOF Dune		Escarpment		icslope		moraine		terrace



ID: 27254 | Unit Name: Offshore marine deposits |
Deposit Type Code: 3a | Deposit Age: Quaternary (Champlain Sea) | Map Number: of3103 | Map Name: Ottawa | Source Map Scale: 1:50 000 | Primary Material: clay, silt | Primary Material Modifier: | Secondary Material: | Primary General: glaciomarine | Primary General Modifier: foreshore/basinal | Veneer: silt, sand | Episode: Wisconsin | Sub Episode: Michigan | Phase: | Stratus Modifier: Surface | Provenance: | Carbon Content: | Formation: | Permeability: Low | Material Description: Clay and silt underlying erosional terraces; upper part of marine deposits removed to variable depths by fluvial erosion so in places clay is uniform blue-grey; unit includes lenses, bars and channel fills to sand and pockets of nonmarine silt that were

ID: 31493 | Unit Name: Deltaic and estuarine deposits |
Deposit Type Code: 4 | Deposit Age: Quaternary (Champlain Sea) | Map Number: of3103 | Map Name: Ottawa | Source Map Scale: 1:50 000 | Primary Material: sand | Primary Material Modifier: | Secondary Material: | Primary General: glaciomarine | Primary General Modifier: deltaic | Veneer: | Episode: Wisconsin | Sub Episode: Michigan | Phase: | Stratus Modifier: Surface | Provenance: | Carbon Content: | Formation: | Permeability: High | Material Description: Medium-to fine-grained sand, in some places fossiliferous; lies outside abandoned channels; most common deposit is a combined strip delta-sand plain that developed as water levels fell.

ID: 32606 | Unit Name: Offshore marine deposits |
Deposit Type Code: 3 | Deposit Age: Quaternary (Champlain Sea) | Map Number: of3103 | Map Name: Ottawa | Source Map Scale: 1:50 000 | Primary Material: clay, silt | Primary Material Modifier: | Secondary Material: sand | Primary General: glaciomarine | Primary General Modifier: foreshore/basinal | Veneer: | Episode: Wisconsin | Sub Episode: Michigan | Phase: | Stratus Modifier: Surface | Provenance: | Carbon Content: | Formation: | Permeability: Low | Material Description: Clay, silty clay and silt, commonly calcareous and fossiliferous; locally overlain by thin sands. Upper parts are generally mottled or laminated reddish brown and bluish grey and may contain lenses and pockets of sand, but at depth the clay is uniform a

ID: 34964 | Unit Name: Till |
Deposit Type Code: 1a | Deposit Age: Quaternary | Map Number: of3103 | Map Name: Ottawa | Source Map Scale: 1:50 000 | Primary Material: diamicton | Primary Material Modifier: sandy silt to silty sand | Secondary Material: | Primary General: glacial | Primary General Modifier: | Veneer: | Episode: Wisconsin | Sub Episode: Michigan | Phase: | Stratus Modifier: Surface | Provenance: N-NE | Carbon Content: | Formation: Undifferentiated silty-sandy till on Paleozoic terrain | Permeability: Low-Medium | Material Description: Sandy and silty compact diamicton, grey at depth but brown where oxidized; calcareous where derived from sedimentary rocks and not leached; consists dominantly of lodgment till. In areas that lie below marine limit (198 m a.s.l.) it is overlain by a disc



ID - ID applied to the Unit

Unit Name - Name of deposit

Deposit Type Code - The geological unit number taken from the original map legend.

Deposit Age - to show the age when the sediments were deposited, e.g., Wisconsinan, postglacial or recent.

Map Number - Original map series number, eg., 'M2402' or 'P1973'. Each sgu_point feature is tagged to its original map.

Map Name - Usually NTS area where mapping was completed, e.g., 'Golden Lake'

Source Map Scale - The scale at which the original map was captured, e.g., '1:50 000'

Primary Material - This attribute provides the user with information regarding the most prevalent material present within a given area.

Primary Material Modifier - This attribute provides the user with a more refined description of the lithological classification of the primary material.

Secondary Material - This attribute provides the user with information regarding subordinate materials present within a given area.

Primary General - This attribute provides the user with an interpretation of the depositional environment within which the primary material was deposited.

Primary General Modifier - This attribute provides the user with a refined interpretation of the primary genetic modifier.

Veneer - This attribute provides the user with information regarding the type of material that forms a thin, discontinuous veneer over the primary material.

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Sub Episode - A diachronic stratigraphic unit in a lower order than Episode and the proposed sequence-stratigraphic classification, consists in descending order of Michigan, Elgin and Ontario in the eastern and northern Great Lakes area in the Wisconsin Episode (Johnson et al. 1997; Karrow et al. 2000).

Phase - A diachronic stratigraphic unit in a lower order than Subepisode, and the proposed sequence-stratigraphic classification is listed in the following table in the eastern and northern Great Lakes area (Karrow et al. 2000)

Stratus Modifier - This attribute provides the user information regarding the stratigraphic position of the mapped unit (i.e., whether the unit occurs primarily on the surface or in the subsurface).

Provenance - This attribute provides the user with information regarding the provenance of a particular till unit (i.e. direction or lobe from which the till is derived).

Carbon Content - This attribute provides the user with information regarding the carbonate content of till.

Formation - This attribute provides the user with information regarding the formation to which a given primary material belongs (e.g., Tavistock Till, Port Stanley Till, Scarborough Formation). This attribute is seamless and allows the user to create a map based on formation.

Permeability - This attribute provides the user with basic information about permeability of the sediments in a ranking of high, medium and low.

Material Description - Material or sediment description, e.g., 'sand and silty fine sand', 'silty sand and gravel' and 'silty till with low stone content'.

APPENDIX G
SITE PHOTOGRAPHS

GEOSYNTEC CONSULTANTS
Photographic Record

Client: Medusa LP

Project Number: TR0936B

Site Name: 99 Bill Leathem Drive, 2 Leikin Drive and 20 Leikin Drive

Site Location: Ottawa, Ontario

Photograph 1

Date: 23 April 2021

Direction: North

Comments: View of the farming field on north portion of 2 Leikin Drive.



Photograph 2

Date: 23 April 2021

Direction: Southwest

Comments: View of agricultural field on 20 Leikin Drive with multistory commercial building located at 61 Bill Leathem Dr in background .



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Medusa LP

Project Number: TR0936B

Site Name: 99 Bill Leathem Drive, 2 Leikin Drive
and 20 Leikin Drive

Site Location: Ottawa, Ontario

Photograph 3

Date: 23 April 2021

Direction: Northeast

Comments: View of the agricultural land north of the Site.



Photograph 4

Date: 23 April 2021

Direction: Southwest

Comments: View of the fill mounds located at 99 Bill Leathem Drive



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Medusa LP

Project Number: TR0936B

Site Name: 99 Bill Leathem Drive, 2 Leikin Drive
and 20 Leikin Drive

Site Location: Ottawa, Ontario

Photograph 5

Date: 23 April 2021

Direction: Southwest

Comments: View of the multistory commercial building (Lumentum) located at 61 Bill Leathem Dr. Standing water is visible in the foreground, likely the result of melting snow.



Photograph 6

Date: 23 April 2021

Direction: Southeast

Comments: View of the Canada Post Facility located at 90 Bill Leathem Dr.



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Medusa LP

Project Number: TR0936B

Site Name: 99 Bill Leathem Drive, 2 Leikin Drive
and 20 Leikin Drive

Site Location: Ottawa, Ontario

Photograph 7

Date: 23 April 2021

Direction: Southwest

Comments: View of the
Enbridge South Merivale
Operations Center located
at 90 Bill Leathem Dr.



Photograph 8

Date: 23 April 2021

Direction: East

Comments: View of
Royal Canadian Mounted
Police facility located at
73 Leikin Dr.



GEOSYNTEC CONSULTANTS
Photographic Record

Client: Medusa LP

Project Number: TR0936B

Site Name: 99 Bill Leathem Drive, 2 Leikin Drive
and 20 Leikin Drive

Site Location: Ottawa, Ontario

Photograph 9

Date: 23 April 2021

Direction: Northeast

Comments: View of the
Canada Paving, on the
northern boundary of the
Site.



Photograph 10

Date: 23 April 2021

Direction: South

Comments: View of the
fill mounds located on the
northeastern portion of
the Site.

